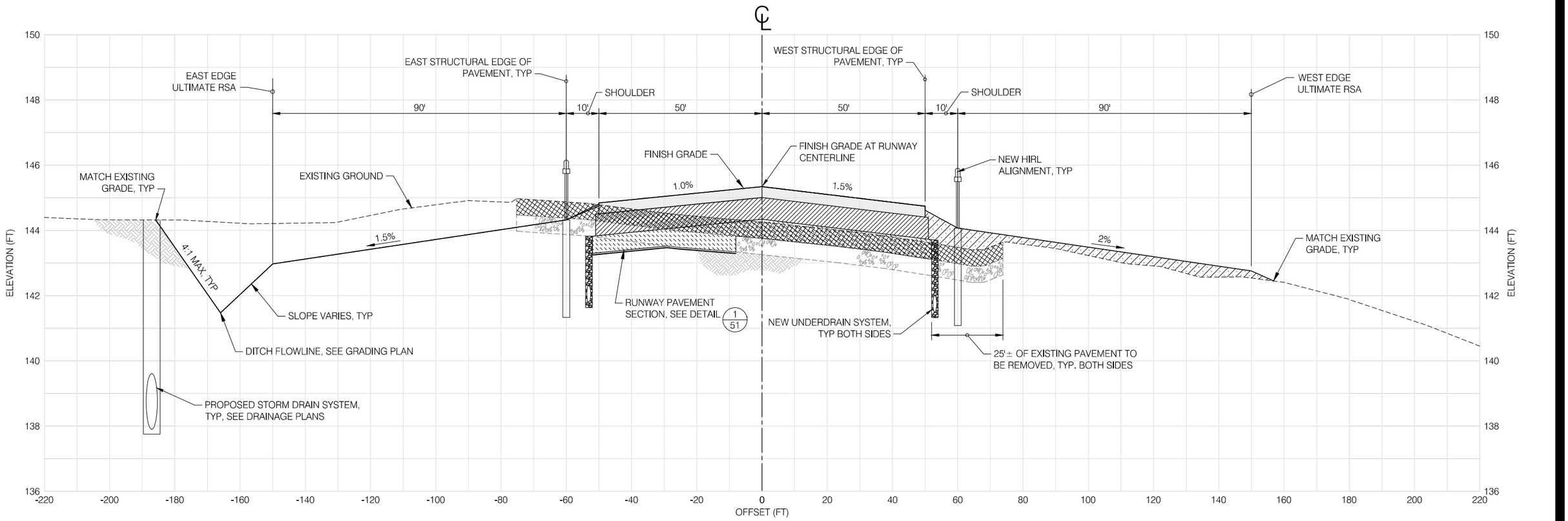


RUNWAY 16-34
STATION 17+75
AS SHOWN

1/77

NOTE:

1. SEE TYPICAL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

0 15 30
SCALE IN FEET
HORIZONTAL

0 1.5 3
SCALE IN FEET
VERTICAL

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
22693PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

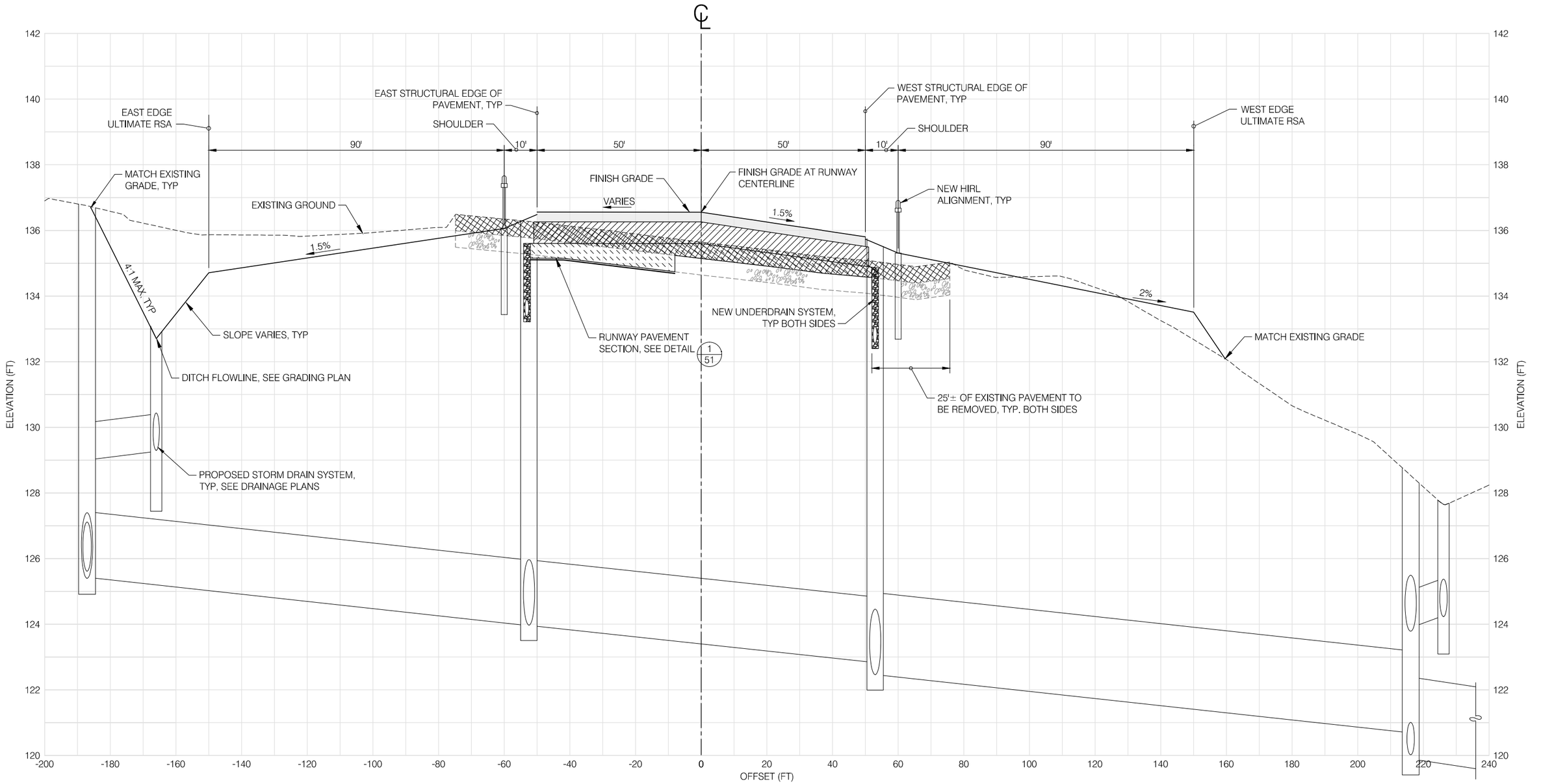
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

RUNWAY 16-34 CROSS SECTION STATION 17+75

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **77**
OF **108**



RUNWAY 16-34
STATION 30+00
AS SHOWN

1/78

NOTE:

1. SEE TYPICAL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

SCALE IN FEET HORIZONTAL: 0 15 30

SCALE IN FEET VERTICAL: 0 1.5 3

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
72693PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

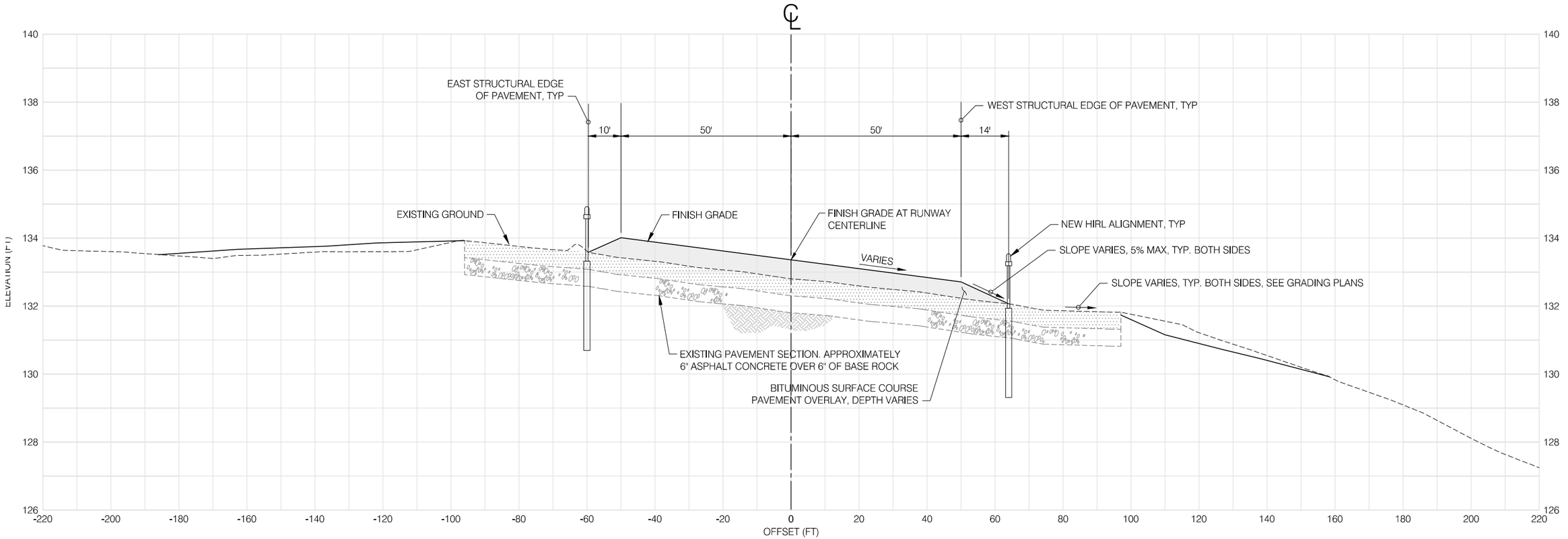
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

RUNWAY 16-34 CROSS SECTION STATION 30+00

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 78 OF 108



RUNWAY 16-34
STATION 37+00
AS SHOWN

1
79

NOTE:

1. SEE TYPICAL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

0 15 30
SCALE IN FEET
HORIZONTAL

0 1.5 3
SCALE IN FEET
VERTICAL

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
22693PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

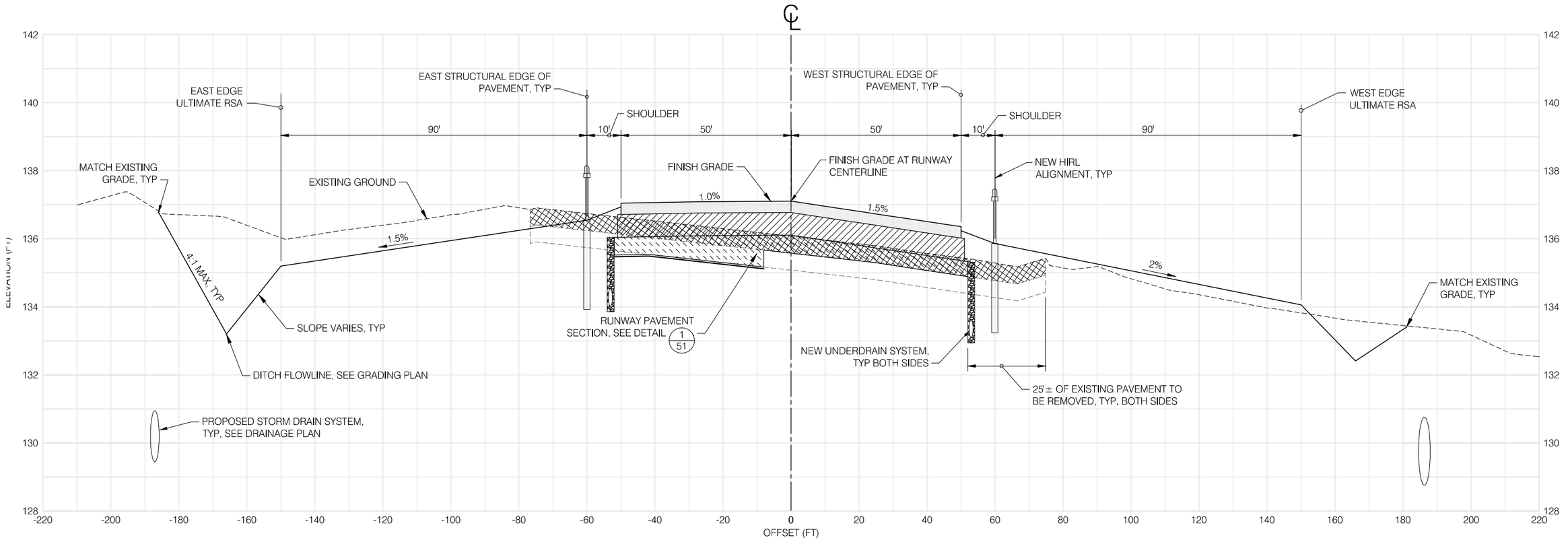
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

RUNWAY 16-34 CROSS SECTION STATION 37+00

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **79** OF **108**



RUNWAY 16-34
STATION 45+00
AS SHOWN

1/80

NOTE:

1. SEE TYPICAL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

0 15 30
SCALE IN FEET
HORIZONTAL

0 1.5 3
SCALE IN FEET
VERTICAL

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
29939PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

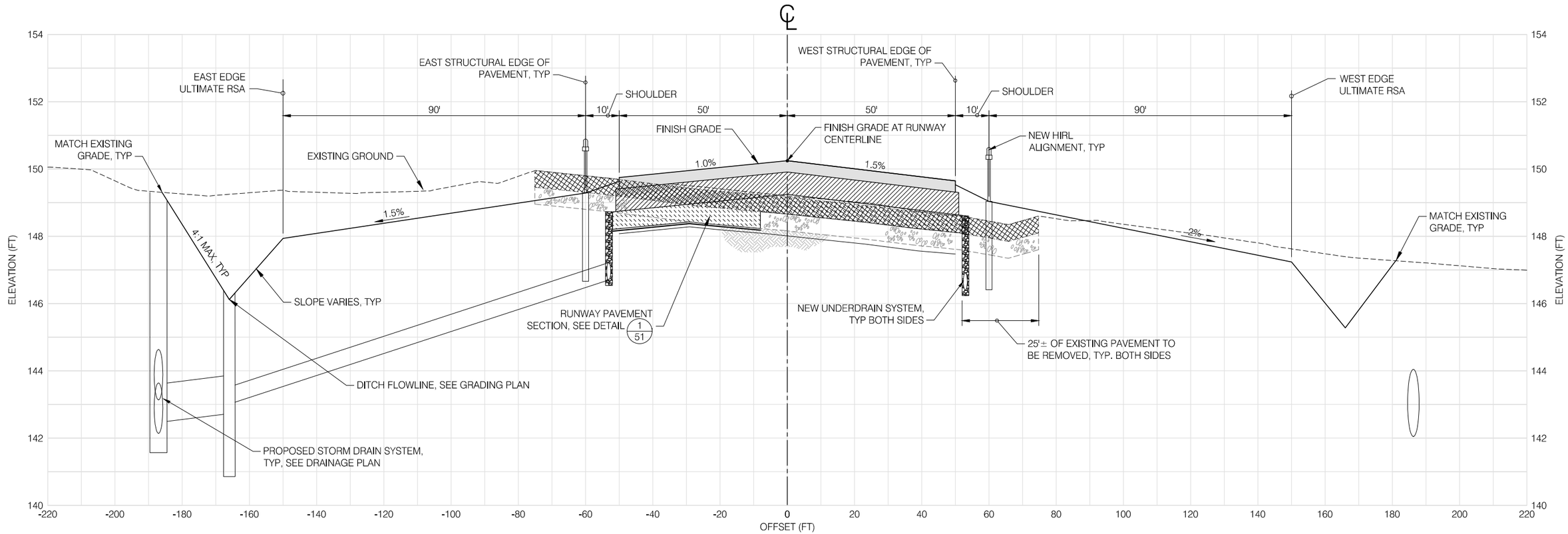
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

RUNWAY 16-34 CROSS SECTION STATION 45+00

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **80** OF **108**



RUNWAY 16-34
STATION 56+00

AS SHOWN

1/81

NOTE:

1. SEE TYPICAL SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.

0 15 30
SCALE IN FEET
HORIZONTAL

0 1.5 3
SCALE IN FEET
VERTICAL

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
72693PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

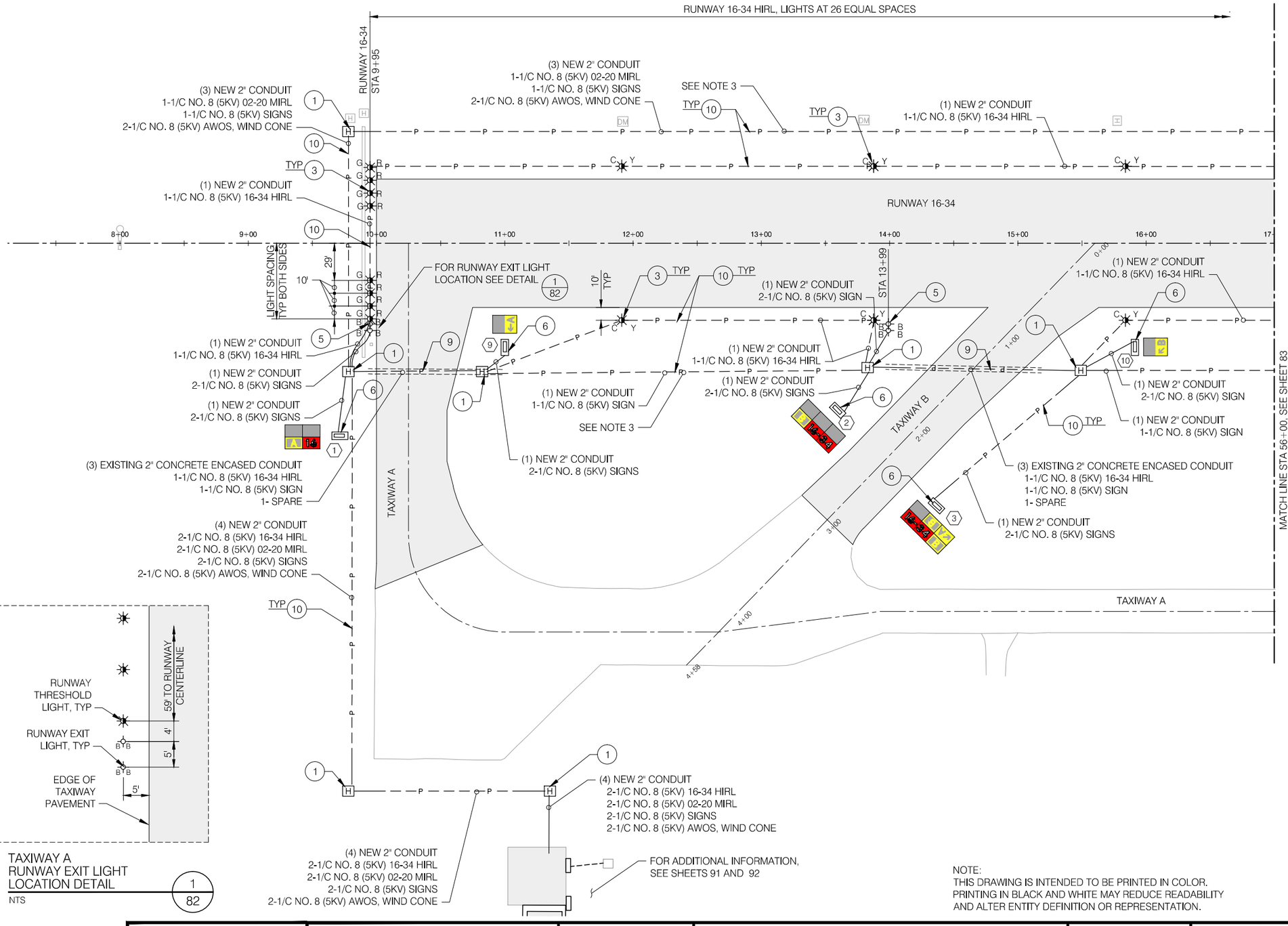
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

RUNWAY 16-34 CROSS SECTION STATION 56+00

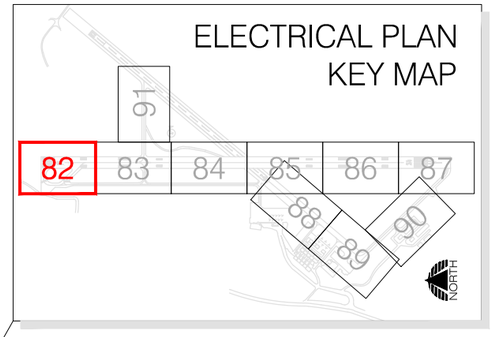
PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 81 OF 108



TAXIWAY A
RUNWAY EXIT LIGHT
LOCATION DETAIL 1/82
NTS



LEGEND

1. INSTALL HANDHOLE, SEE DETAIL 1/92
2. INSTALL JUNCTION CAN, SEE DETAIL 2/92
3. INSTALL ELEVATED LIGHT, SEE DETAIL 1/93
4. INSTALL IN-PAVEMENT RUNWAY LIGHT, SEE DETAIL 1/94
5. INSTALL TAXIWAY EXIT LIGHTS, SEE DETAIL 4/93
6. INSTALL GUIDANCE SIGN, SEE SEE SIGN PANEL LAYOUT ON SHEET 102 AND DETAIL 1/100
7. INSTALL DISTANCE REMAINING SIGN, SEE SIGN PANEL LAYOUT ON SHEET 102 AND DETAIL 1/101
8. INSTALL PAVEMENT CONDUIT CROSSING, SEE DETAIL 1/95
9. EXISTING PAVEMENT CONDUIT CROSSING
10. INSTALL CONDUIT, RUN CABLE AS NOTED, SEE DETAIL 2/95
11. ADJUST EXISTING FLUSH-MOUNTED LIGHT, SEE DETAIL 2/94

NOTES:

1. EXISTING ELECTRICAL TO BE DEMOLISHED IS NOT SHOWN ON THIS SHEET, SEE ELECTRICAL DEMOLITION PLANS, SHEETS 23-31.
2. SEE SHEET 3 FOR ELECTRICAL LEGEND.
3. ELECTRICAL CONDUIT ROUTING SHOWN IN APPROXIMATE LOCATION, VERIFY WITH ENGINEER PRIOR TO INSTALLATION.
4. HANDHOLE AND JUNCTION CAN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.

NOTE:
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. PRINTING IN BLACK AND WHITE MAY REDUCE READABILITY AND ALTER ENTITY DEFINITION OR REPRESENTATION.

NORTH
0 20 40 80
SCALE IN FEET

TriAxis Engineering, Inc.
PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER — OREGON — MICHAEL DAVID BEARMAN — EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

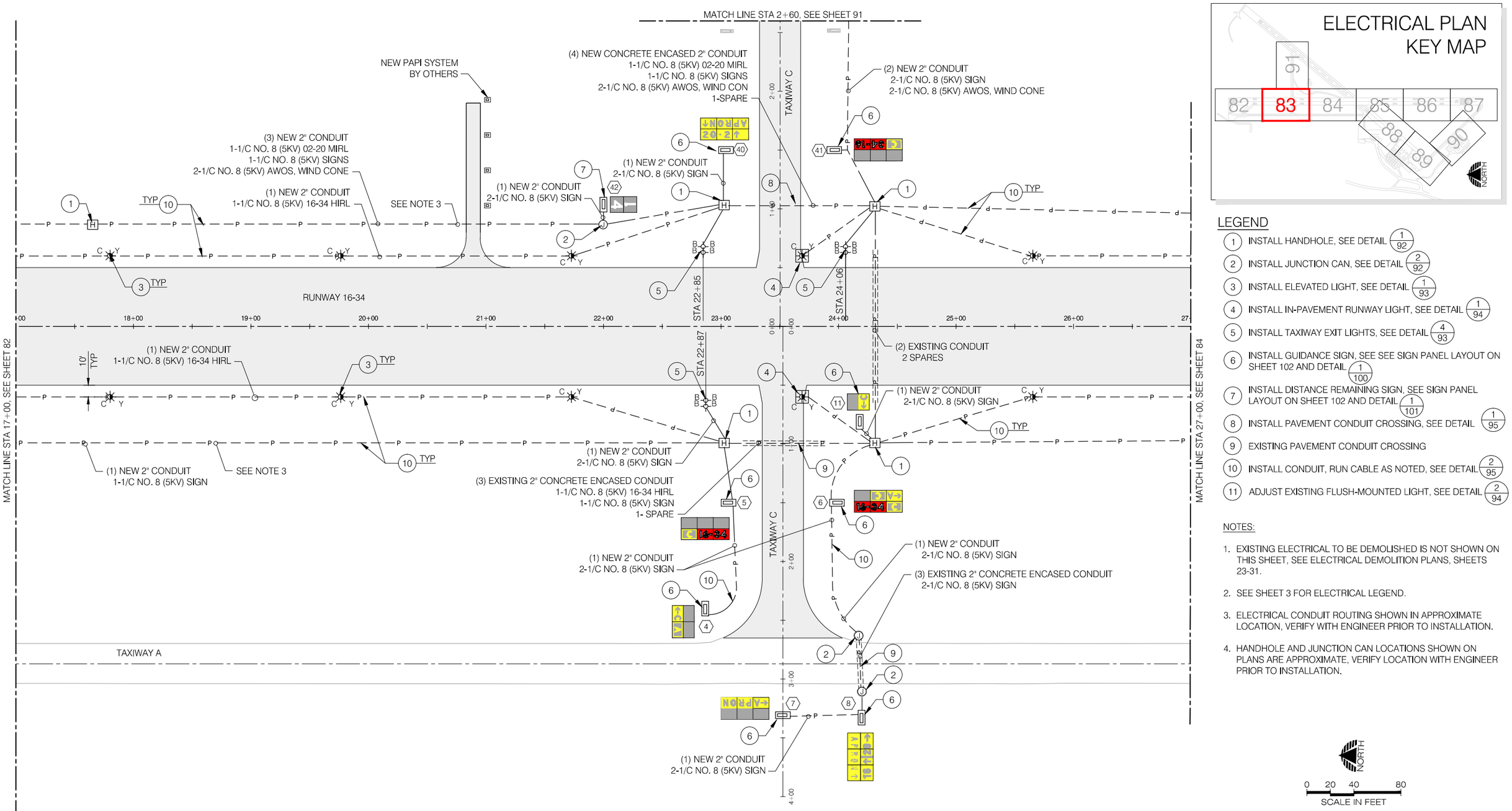
DATE: JUNE 2013
DESIGN: GPG
DRAWN: GPG
CHECKED: MDB
REVISION NUMBER: 0
SCALE: AS SHOWN

NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**
SHEET NO. **82** OF **108**



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NORTH

0 20 40 80

SCALE IN FEET

NOTE:
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AND ALTER ENTITY DEFINITION OR REPRESENTATION.

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 12, 1977
MICHAEL DAVID BRAULICK
EXPIRES 12/31/2013

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: GPG
DRAWN: GPG
CHECKED: MDB
REVISION NUMBER: 0

SCALE: AS SHOWN

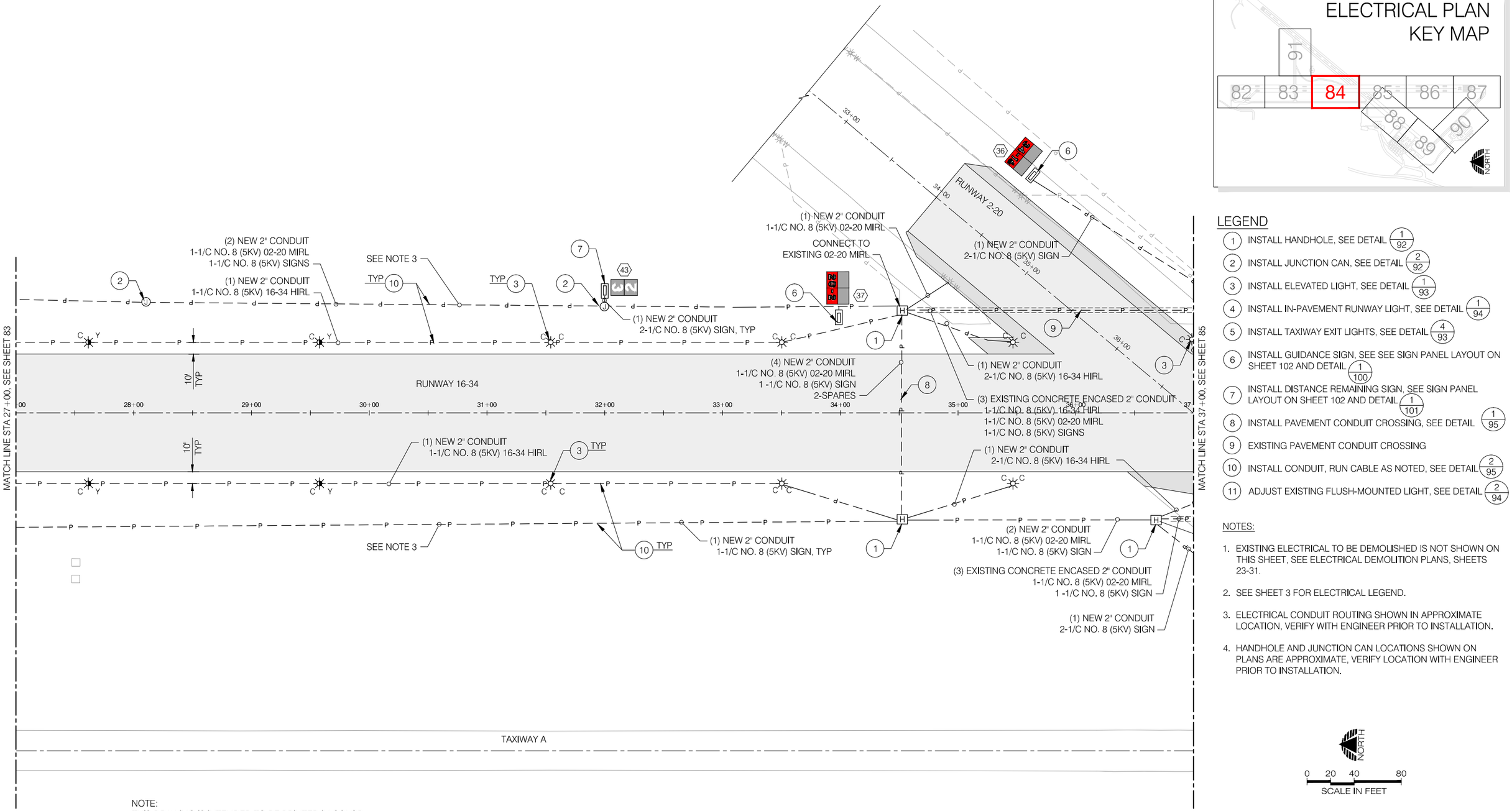
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 83 OF 108



LEGEND

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NORTH

0 20 40 80

SCALE IN FEET

NOTE:
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AND ALTER ENTITY DEFINITION OR REPRESENTATION.

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
OREGON
MELINDA DAVIS BEARD
EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: GPG
DRAWN: GPG
CHECKED: MDB
REVISION NUMBER: 0

SCALE: AS SHOWN

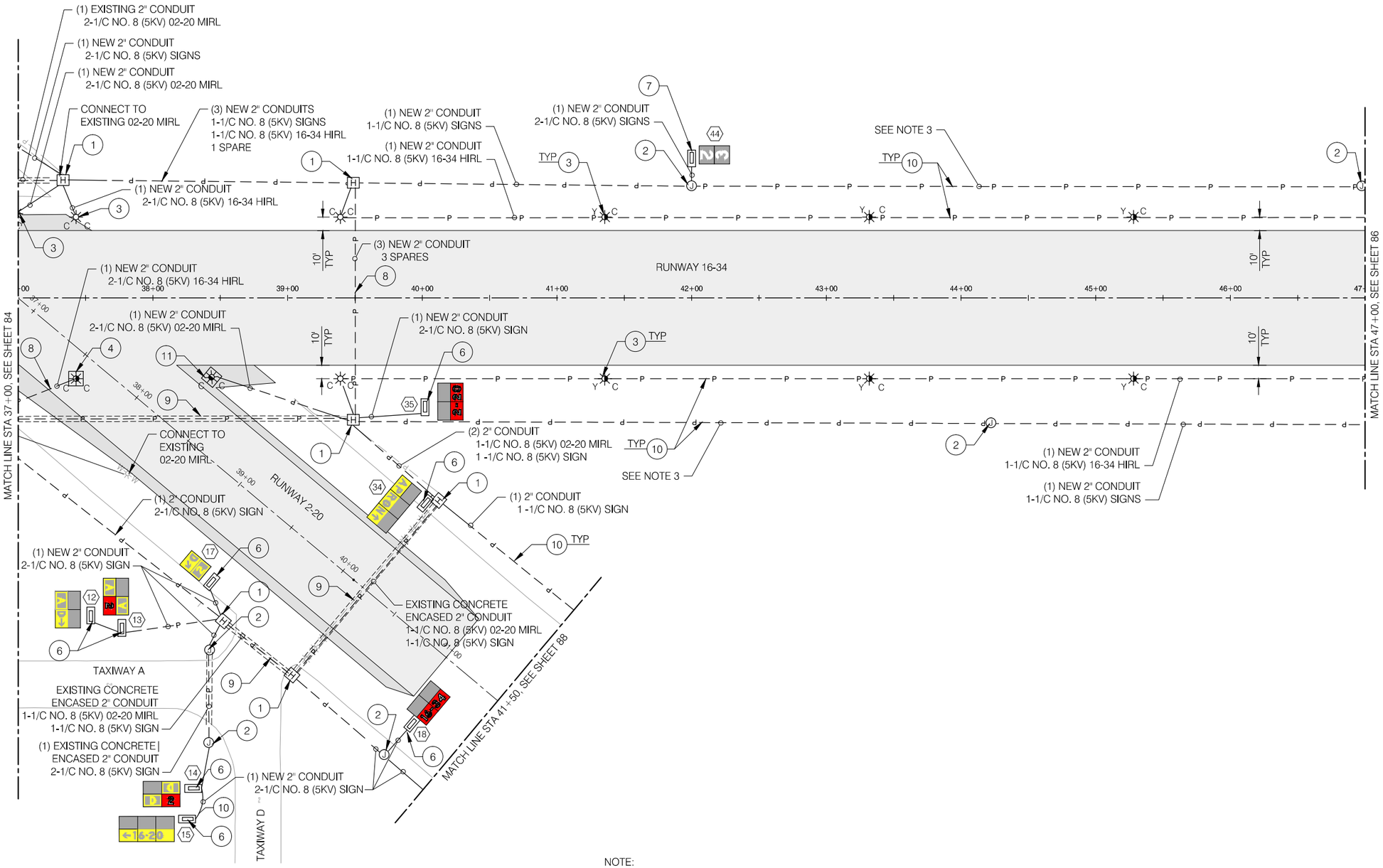
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

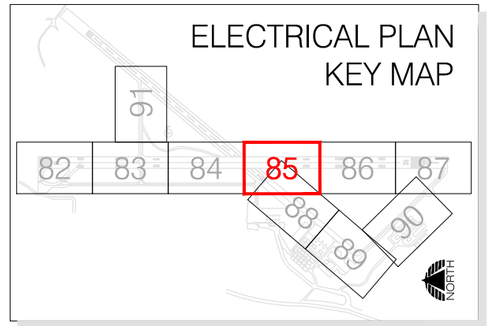
ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 84 OF 108





LEGEND

1. INSTALL HANDHOLE, SEE DETAIL 1/92
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NORTH

0 20 40 80
SCALE IN FEET

NOTE:
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PRINTING IN BLACK AND WHITE MAY REDUCE READABILITY
AND ALTER ENTITY DEFINITION OR REPRESENTATION.

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
OREGON
MICHAEL DAVID BRAULICK
EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: GPG
DRAWN: GPG
CHECKED: MDB
REVISION NUMBER: 0

SCALE: AS SHOWN

NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

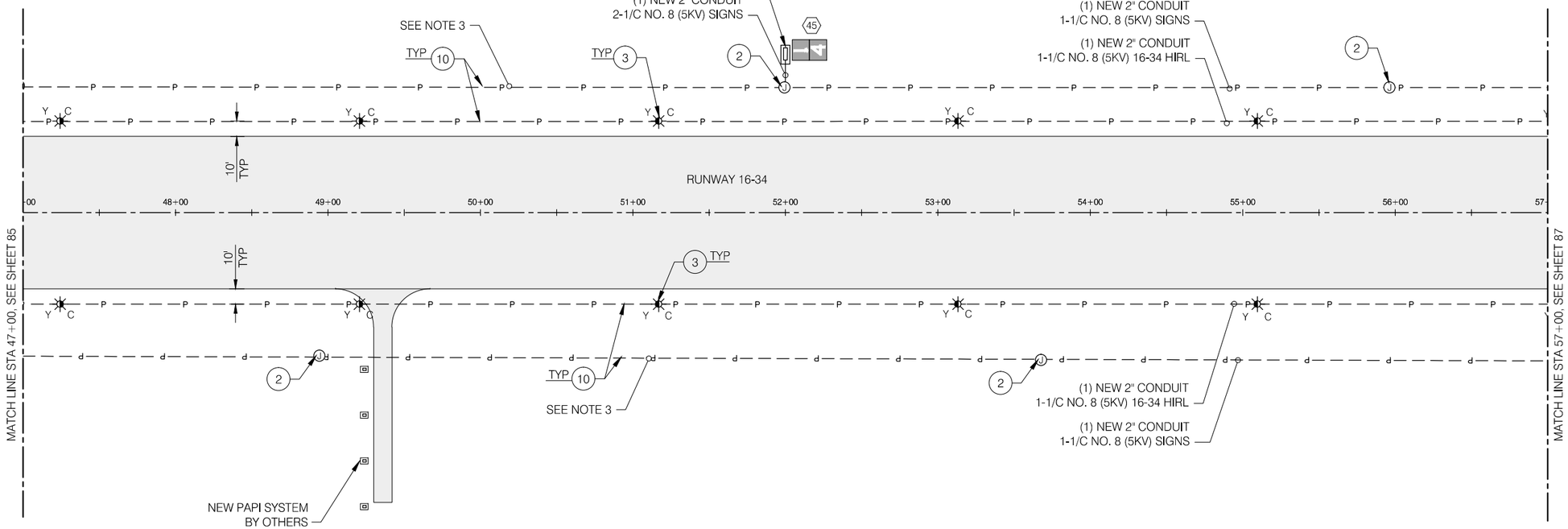
ELECTRICAL LAYOUT PLAN

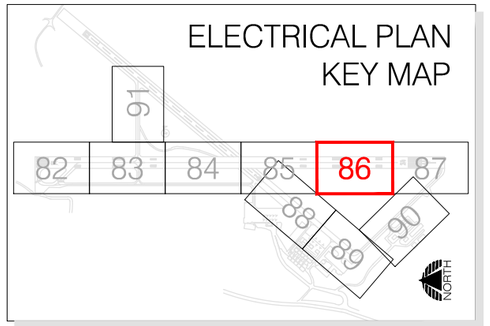
PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 85 OF 108

06/11/13 - 9:45pm - jwade - P:\N\NPT008-RW 16-34 Rehab-Dsn\0400CAD\DWG\Sheets\NPT008-ELECTRICAL.dwg





LEGEND

1. INSTALL HANDHOLE, SEE DETAIL 1/92
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NOTE:
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AND ALTER ENTITY DEFINITION OR REPRESENTATION.

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER — OREGON — MICHAEL DAVID BRAULICK — EXPIRES 12/31/2013

REVISIONS: DATE APPD.

DATE:	JUNE 2013
DESIGN:	GPG
DRAWN:	GPG
CHECKED:	MDB
REVISION NUMBER:	0
SCALE:	AS SHOWN

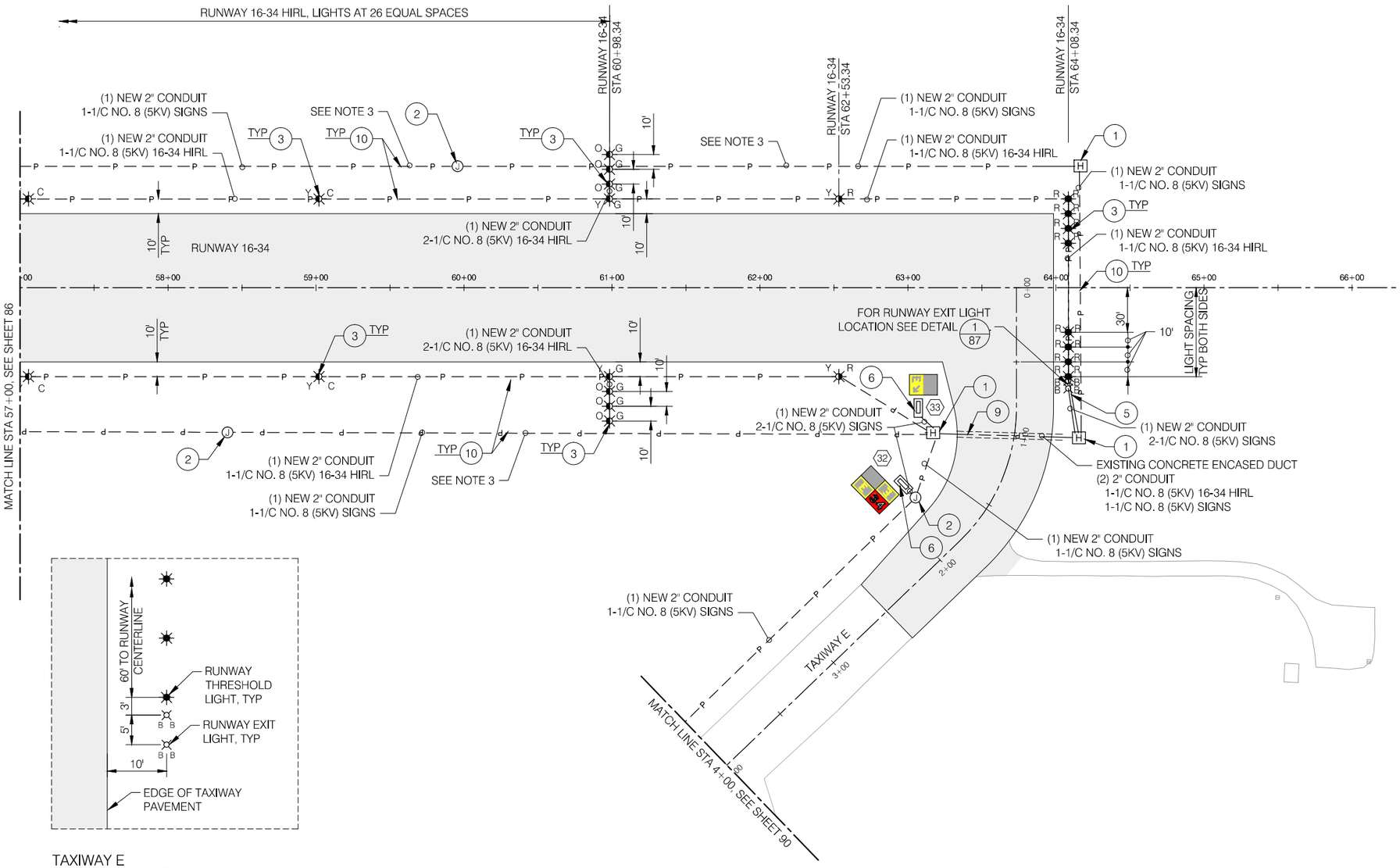
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

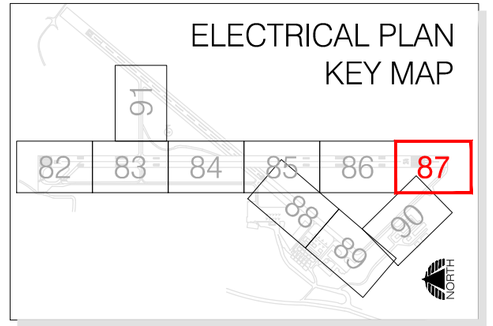
PROJECT NUMBER: **NPT008**

SHEET NO. **86** OF **108**



TAXIWAY E
RUNWAY EXIT LIGHT
LOCATION DETAIL 1/87
NTS

NOTE:
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR.
PRINTING IN BLACK AND WHITE MAY REDUCE READABILITY
AND ALTER ENTITY DEFINITION OR REPRESENTATION.



LEGEND

1. INSTALL HANDHOLE, SEE DETAIL 1/92
2. INSTALL JUNCTION CAN, SEE DETAIL 2/92
3. INSTALL ELEVATED LIGHT, SEE DETAIL 1/93
4. INSTALL IN-PAVEMENT RUNWAY LIGHT, SEE DETAIL 1/94
5. INSTALL TAXIWAY EXIT LIGHTS, SEE DETAIL 4/93
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NOTES:

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4. HANDHOLE AND JUNCTION CAN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.

NORTH
0 20 40 80
SCALE IN FEET

TriAxis Engineering, Inc.
PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
OREGON
MICHAEL DAVID BRAULICK
EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

DATE:	JUNE 2013
DESIGN:	GPG
DRAWN:	GPG
CHECKED:	MDB
REVISION NUMBER:	0
SCALE:	AS SHOWN

NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

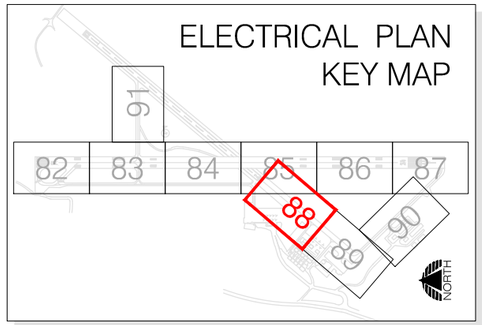
ELECTRICAL LAYOUT PLAN

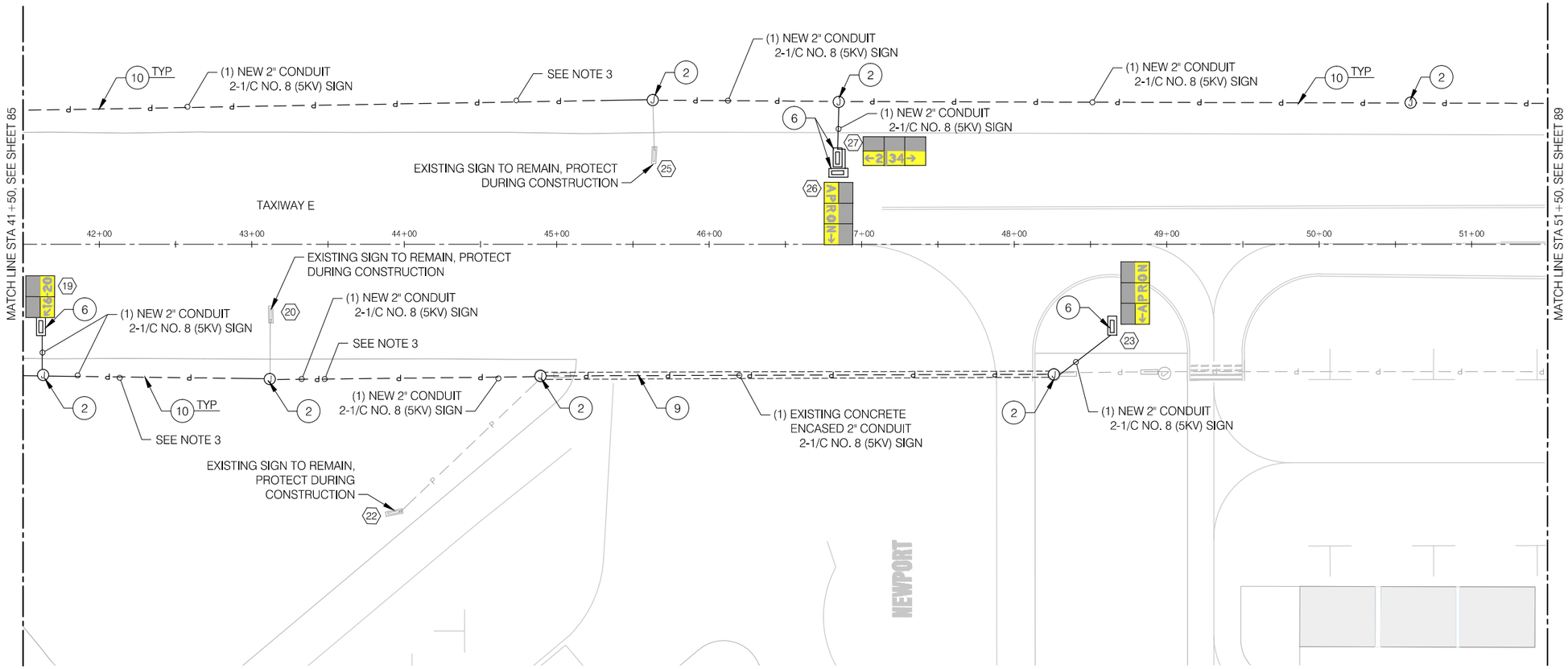
PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 87 OF 108

ELECTRICAL PLAN KEY MAP





LEGEND

1. INSTALL HANDHOLE, SEE DETAIL 1/92
2. INSTALL JUNCTION CAN, SEE DETAIL 2/92
3. INSTALL ELEVATED LIGHT, SEE DETAIL 1/93
4. INSTALL IN-PAVEMENT RUNWAY LIGHT, SEE DETAIL 1/94
5. INSTALL TAXIWAY EXIT LIGHTS, SEE DETAIL 4/93
6. INSTALL GUIDANCE SIGN, SEE SEE SIGN PANEL LAYOUT ON SHEET 102 AND DETAIL 1/100
7. INSTALL DISTANCE REMAINING SIGN, SEE SIGN PANEL LAYOUT ON SHEET 102 AND DETAIL 1/101
8. INSTALL PAVEMENT CONDUIT CROSSING, SEE DETAIL 1/95
9. EXISTING PAVEMENT CONDUIT CROSSING
10. INSTALL CONDUIT, RUN CABLE AS NOTED, SEE DETAIL 2/95
11. ADJUST EXISTING FLUSH-MOUNTED LIGHT, SEE DETAIL 2/94

NOTES:

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2. SEE SHEET 3 FOR ELECTRICAL LEGEND.
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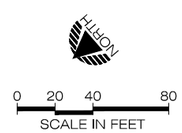
4. HANDHOLE AND JUNCTION CAN LOCATIONS SHOWN ON PLANS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.



NOTE:
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TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER — OREGON — 20??? — MICHAEL DAVID BRAULICK — EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

DATE:	JUNE 2013
DESIGN:	GPG
DRAWN:	GPG
CHECKED:	MDB
REVISION NUMBER:	0
SCALE:	AS SHOWN

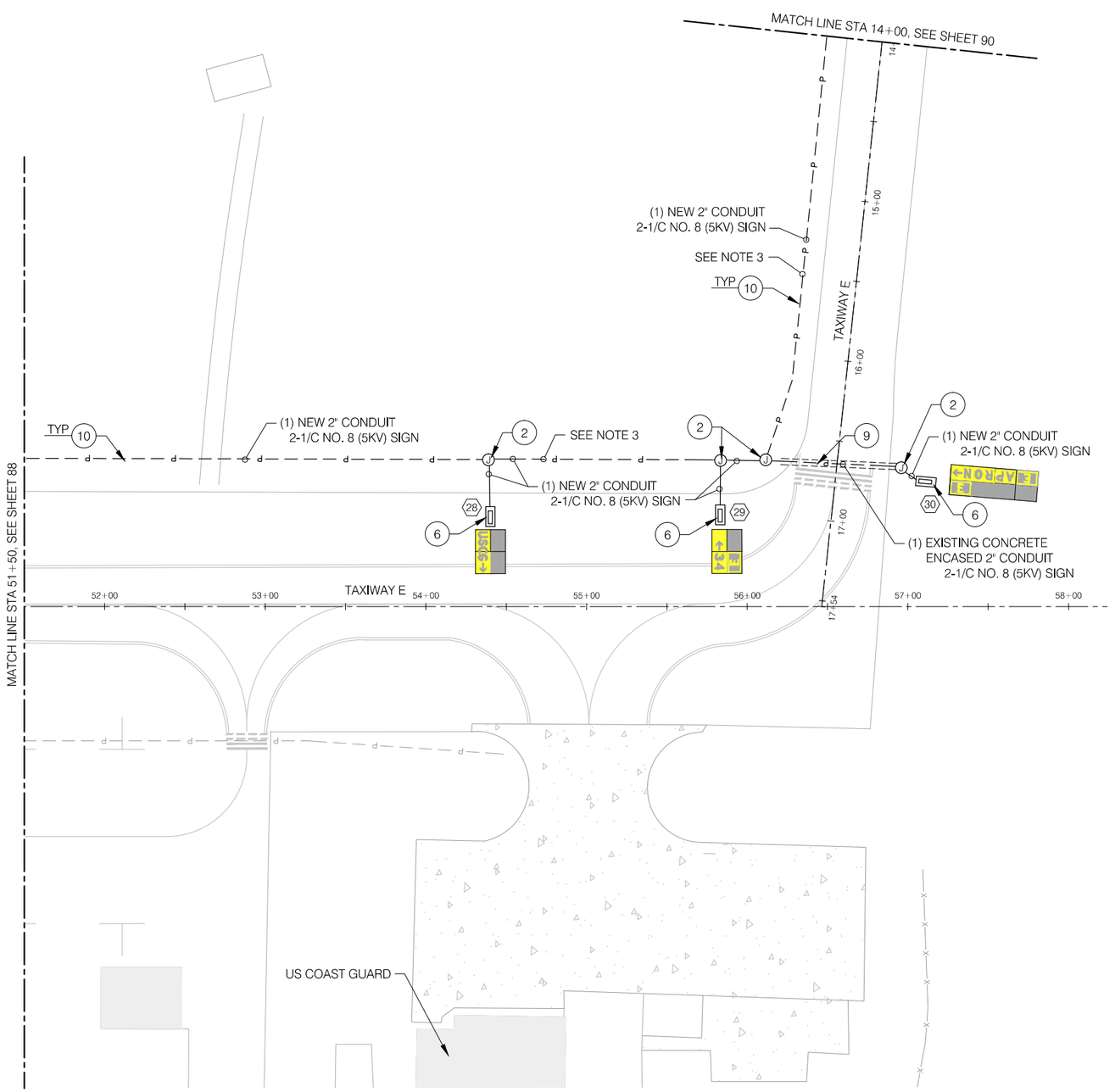
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **88** OF **108**



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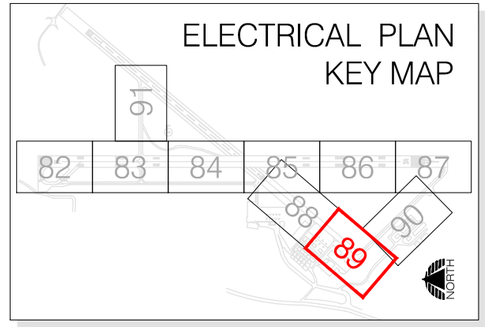

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NORTH

0 20 40 80
SCALE IN FEET

TriAxis Engineering, Inc.
PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
OREGON JANUARY 15, 1981
MICHAEL DAVID BEAUMONT
EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: GPG
DRAWN: GPG
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SCALE: AS SHOWN

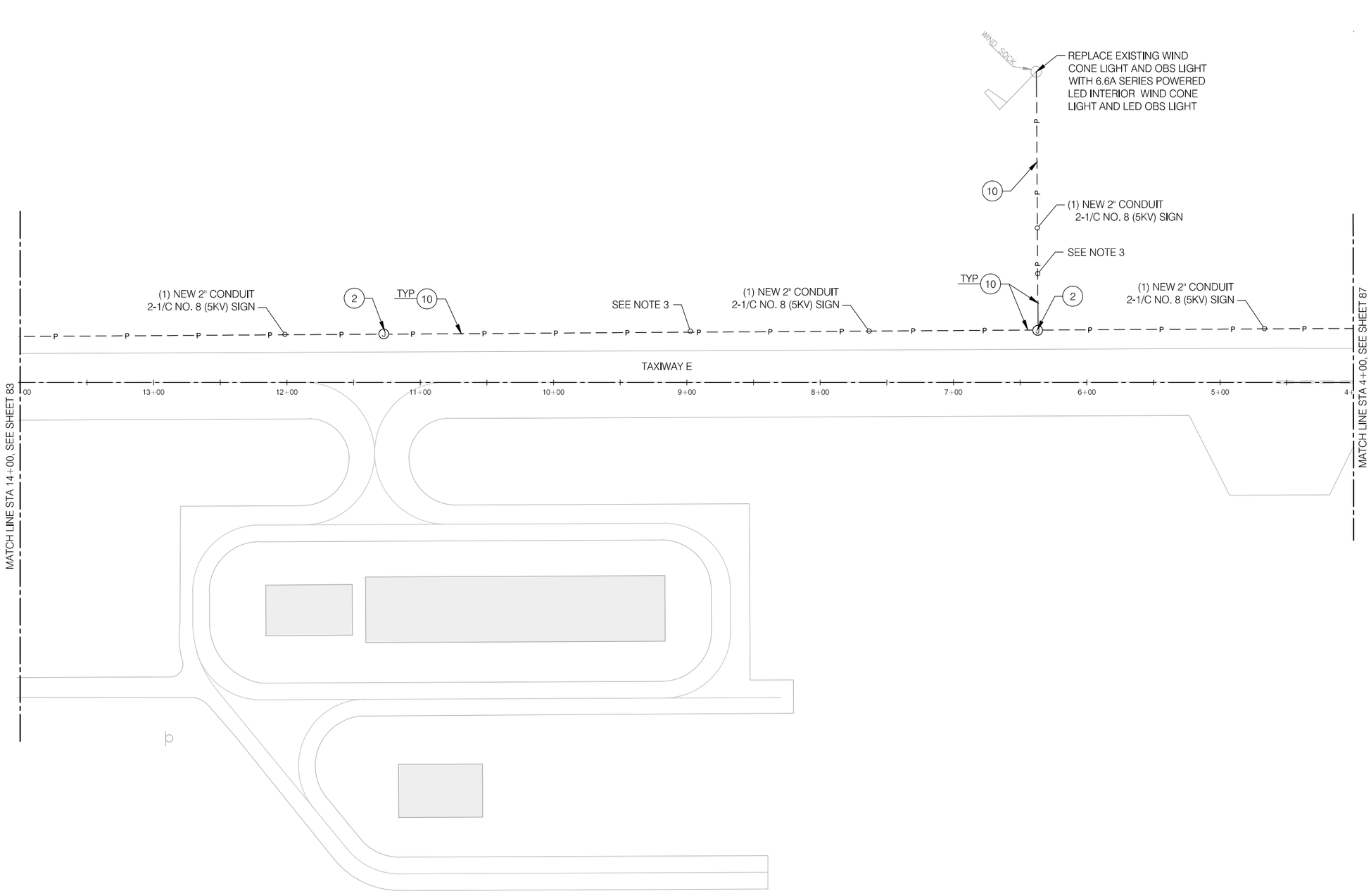
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

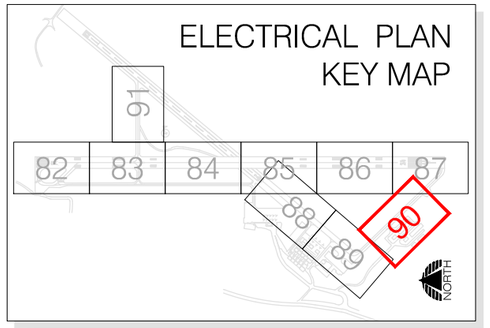
ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 89 OF 108





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5125 Southwest Hout Street
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541•754•0043

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OREGON
MICHAEL DAVID BEAULIEU
EXPIRES: 12/31/2013

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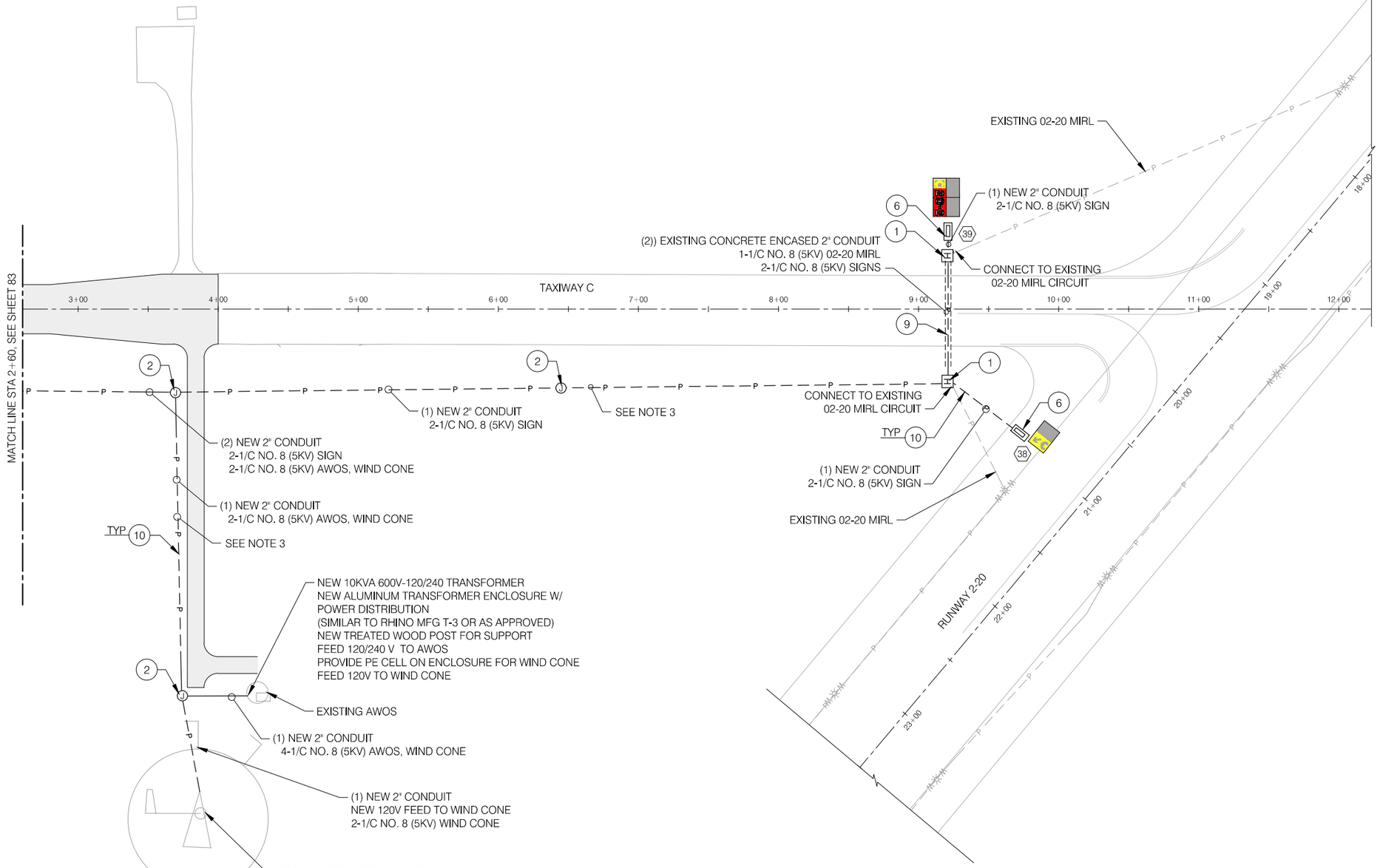
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL LAYOUT PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 90 OF 108



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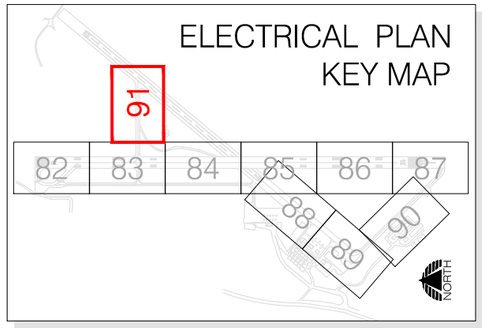

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SCALE IN FEET

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
OREGON
MICHAEL DAVID BEARD
EXPIRES: 12/31/2013

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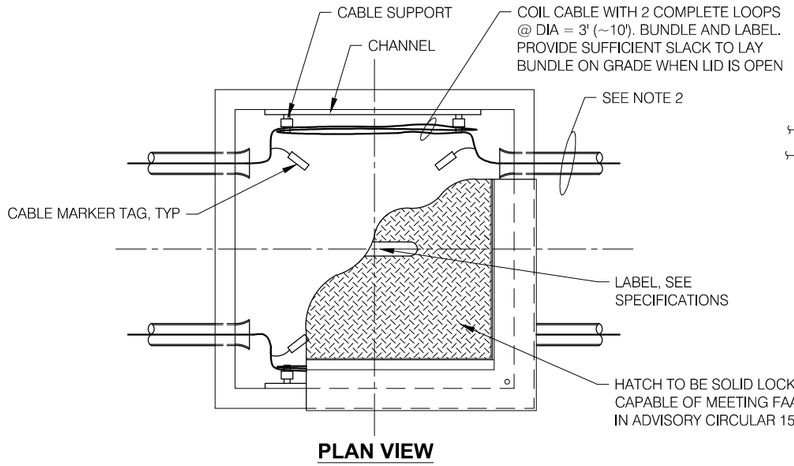
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL LAYOUT PLAN

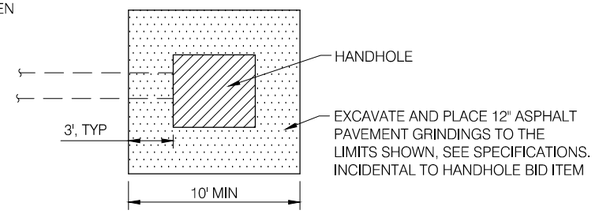
PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

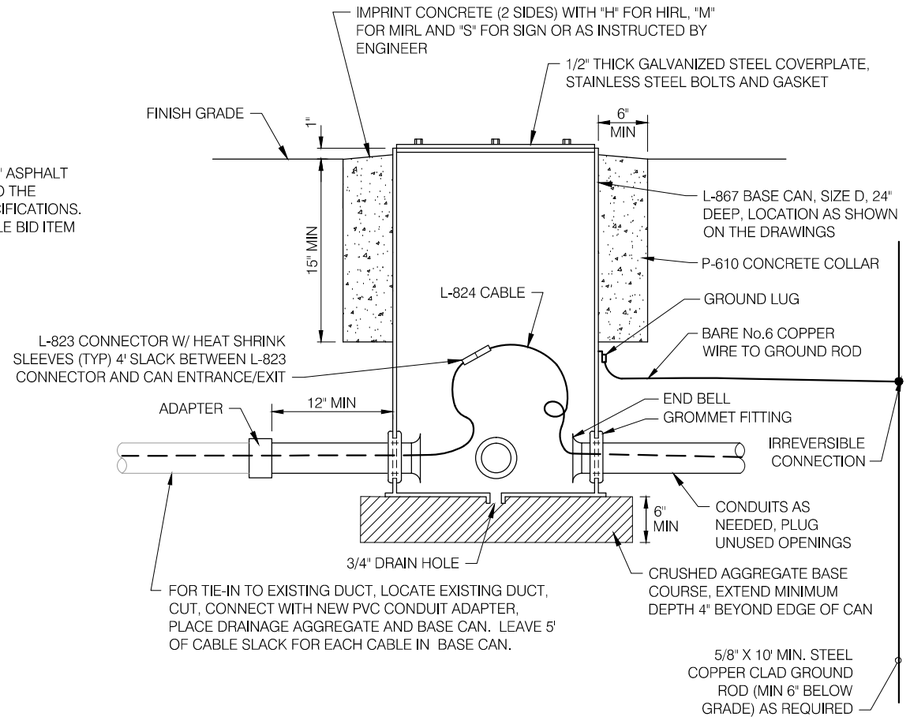
SHEET NO. 91 OF 108



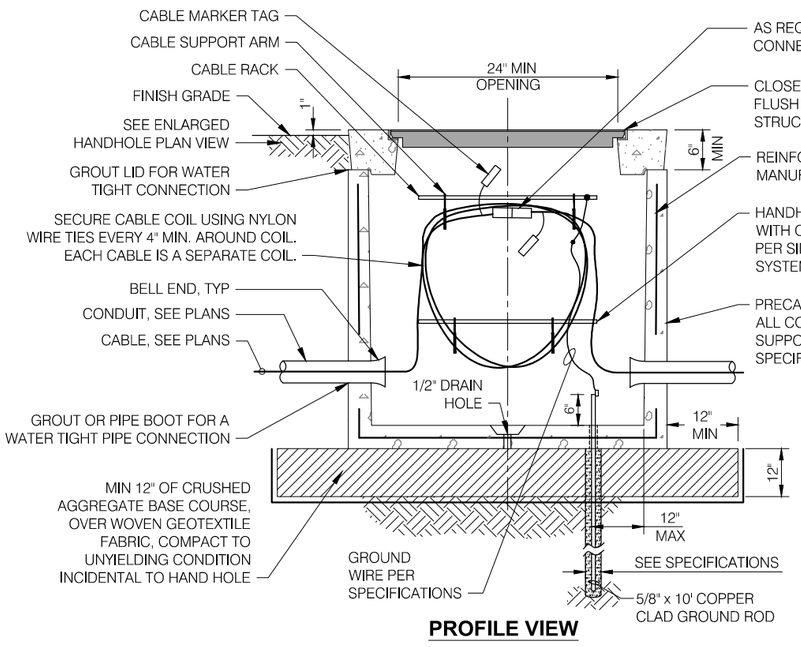
PLAN VIEW



ENLARGED HANDHOLE PLAN VIEW



JUNCTION CAN DETAIL — 2/92
NTS



PROFILE VIEW

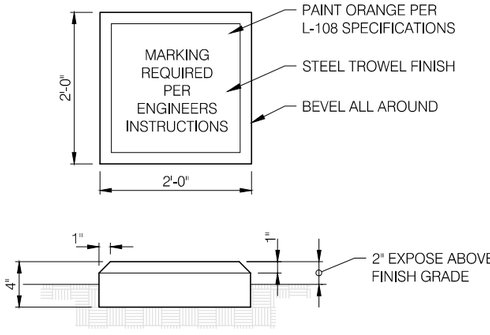
HANDHOLE INSTALLATION DETAIL — 1/92
NTS

NOTES:

1. PROVIDE CABLE SUPPORT LEVEL, MINIMUM, WITH SPLICE CENTERED.
2. NUMBER AND LOCATION OF CONDUITS AND CABLE WILL VARY FOR EACH HANDHOLE. SEE PLAN SHEET.
3. AS APPLICABLE SEPARATE HIGH AND LOW VOLTAGE CABLES TO OPPOSING WALLS OF HANDHOLE OR AS DIRECTED BY ENGINEER.
4. WHERE CONNECTIONS ARE MADE TO EXISTING CIRCUITS ENSURE SPLICE IS MADE IN HANDHOLE WITH ENOUGH SLACK TO PULL A SPLICE A MINIMUM 18" ABOVE HANDHOLE.
5. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ENGINEERS APPROVAL PRIOR TO ORDERING STRUCTURES.
6. LID TO HINGE OPEN AWAY FROM RUNWAY.
7. NEW HANDHOLE LOCATION AS DIRECTED BY ENGINEER.

DUCT MARKER TEXT EXAMPLE, BUT NOT LIMITED TO:

1) MIRL — 1 - 2" PVC
2) HIRL — 1 - 2" PVC
3) SIGN — 2-2" PVC
4) GROUND ROD



TYPICAL DUCT AND CABLE CONCRETE MARKER DETAIL — 3/92
NTS

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ELECTRICAL DETAILS

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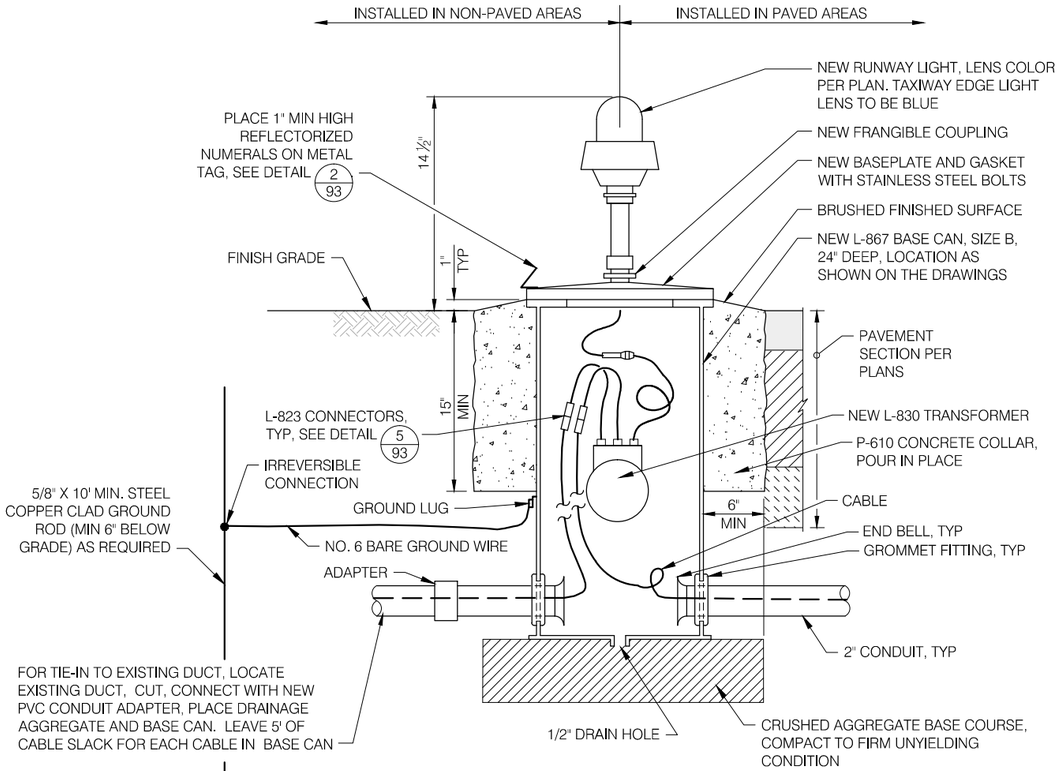
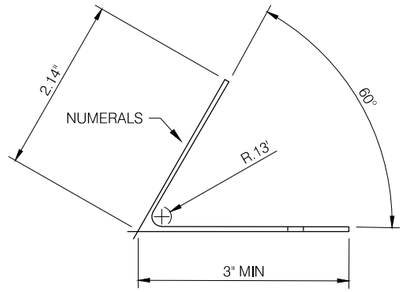
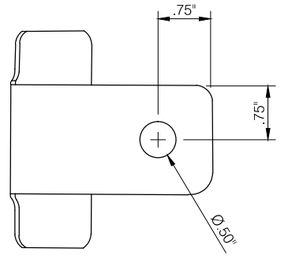
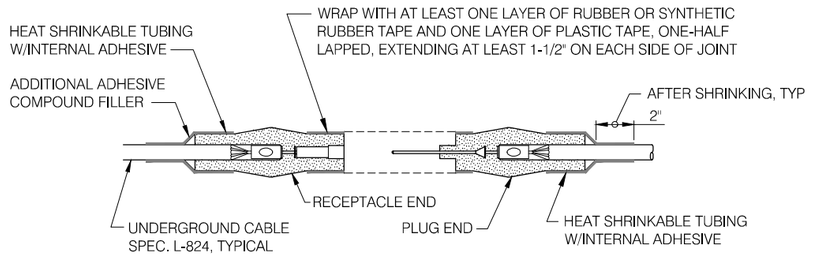


ELEVATED LIGHT INSTALLATION DETAIL — 1/93
NTS



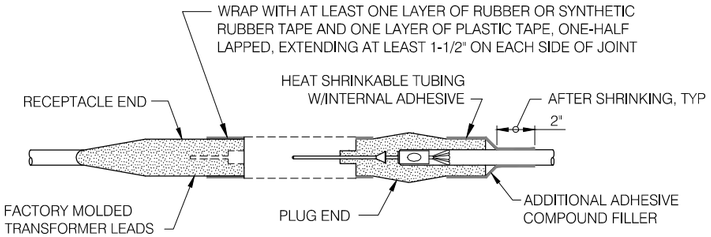


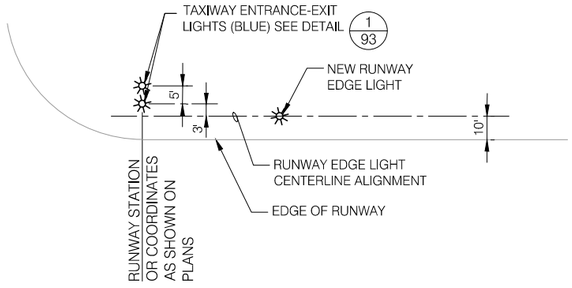


NOTES:

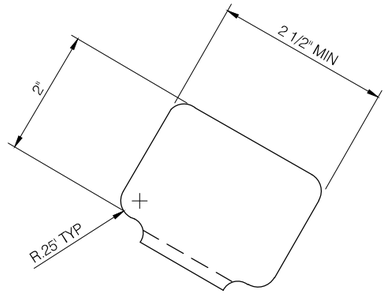
1. FOR SPLICES FOR USE AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT

CABLE SPLICE - TYPE B — 3/93
NTS





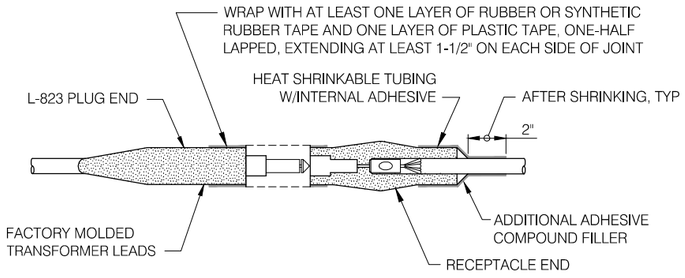
TAXIWAY ENTRANCE-EXIT LIGHT LAYOUT DETAIL — 4/93
NTS



NOTES:

1. SIZE TO CONNECT TO BASE PLATE OF EACH LIGHT.
2. METAL SHALL BE STAINLESS STEEL, 16 GAUGE
3. SUBMIT SHOP DRAWING TO ENGINEER FOR APPROVAL.

AIRFIELD LIGHTING EQUIPMENT IDENTIFICATION MARKER DETAIL — 2/93
NTS



NOTES:

1. FOR SPLICES AT RUNWAY LIGHTS
2. SEE LIGHTING LAYOUT SHEET
3. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE

CABLE SPLICE - TYPE C — 5/93
NTS

TriAxis Engineering, Inc.

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5125 Southwest Hout Street
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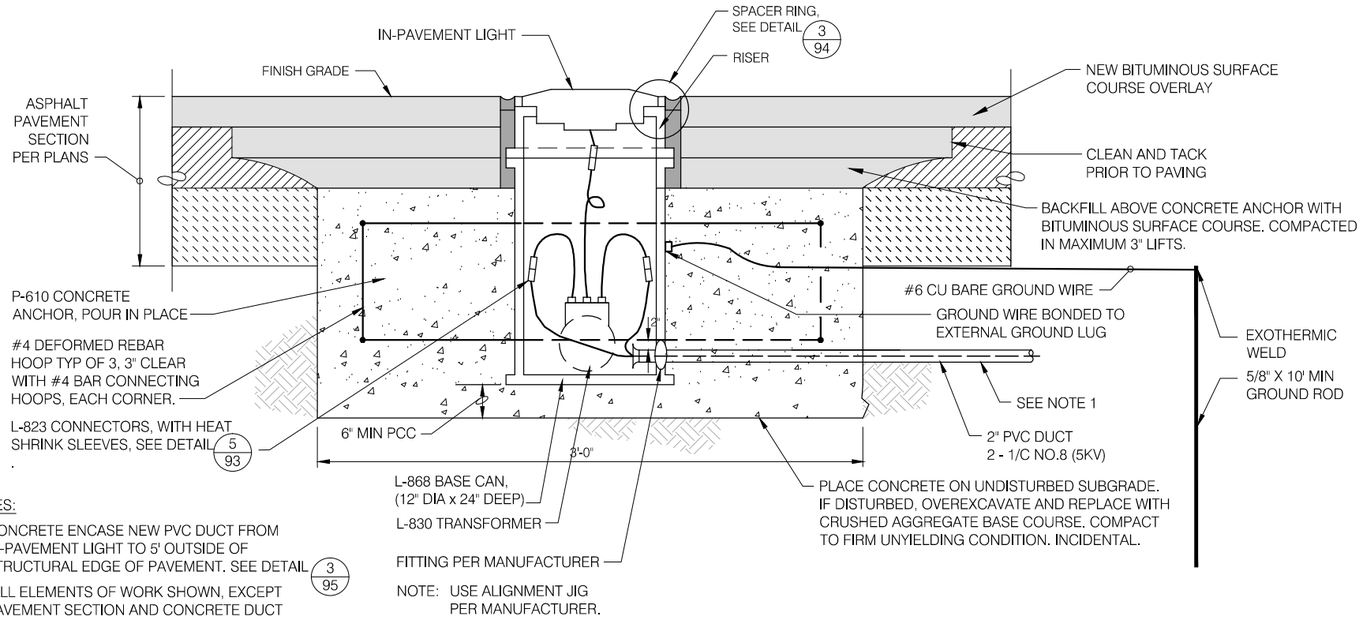
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **93** OF **108**

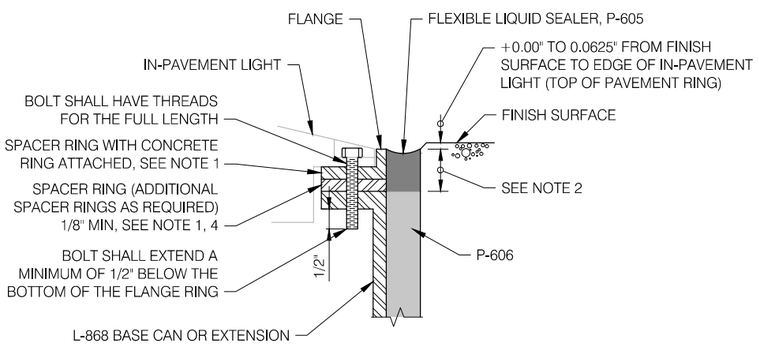


NOTES:

1. CONCRETE ENCASE NEW PVC DUCT FROM IN-PAVEMENT LIGHT TO 5' OUTSIDE OF STRUCTURAL EDGE OF PAVEMENT. SEE DETAIL 3/95
2. ALL ELEMENTS OF WORK SHOWN, EXCEPT PAVEMENT SECTION AND CONCRETE DUCT ENCASEMENT OUTSIDE CONCRETE ANCHOR, SHALL BE PAID UNDER RUNWAY EDGE LIGHT, IN-PAVEMENT BID ITEM.

IN-PAVEMENT RUNWAY LIGHT INSTALLATION DETAIL

NTS — 1/94

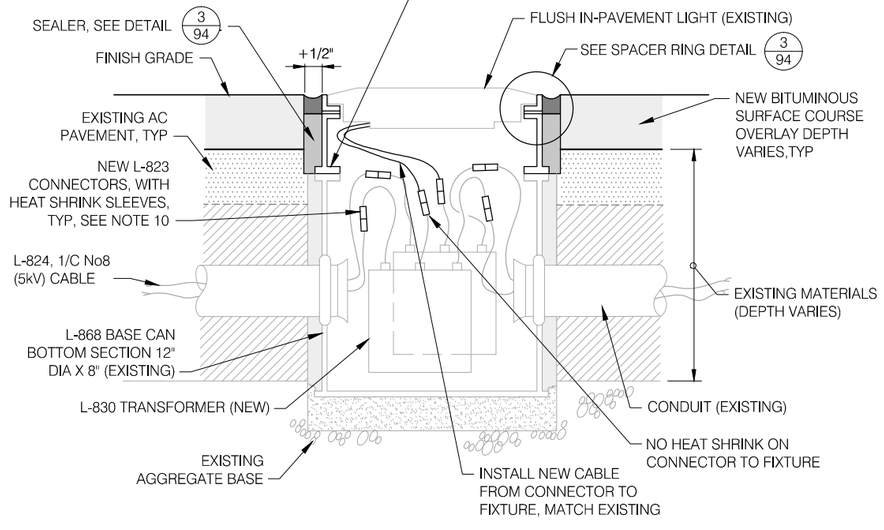


NOTES:

1. THE SPACER RING AND BASE TOP SECTION IS DESIGNED AS A NOMINAL 3/4" THICKNESS. SPACER RING MAY BE REQUIRED TO BE THICKER DEPENDING ON BASE CAN INSTALLATION AND PAVING TECHNIQUES. THE CONTRACTOR SHALL MEASURE THE REQUIRED THICKNESS FOR EACH INDIVIDUAL SPACER RING. ADDITIONAL SPACERS SHALL BE PROVIDED IF REQUIRED. USE SILICONE GREASE AS SEALANT IN PLACE OF THE O-RING GASKET, (TYPICAL IN-PAVEMENT LIGHTS), BETWEEN SPACER RINGS AND BETWEEN SPACER RING AND BASE CAN.
2. THIS DIMENSION MUST BE VERIFIED WITH THE IN-PAVEMENT LIGHT SUPPLIED.
3. VERIFY INSTALLATION WITH MANUFACTURER, THEN ENGINEER.
4. SPACER SHALL BE USED.

SPACER RING DETAIL

NTS — 3/94



FLUSH MOUNTED RUNWAY LIGHT ADJUSTMENT NOTES:

1. DETERMINE THE SIZE OF THE LIGHT BASE EXTENSION AND GROOVED SPACER RINGS REQUIRED TO PLACE THE FIXTURE AT THE PROPER ELEVATION.
2. INSTALL THE CAN EXTENSION AND GROOVED SPACER RINGS PER THE MANUFACTURERS RECOMMENDATIONS. INSTALL THE "O" RING IN THE GROOVED SPACER RINGS IN THE LIGHT FIXTURE. INSTALL THE LIGHT FIXTURE AND APPLY NICKLE-BASED ANTI-SEIZE COMPOUND TO ALL BOLTS AND TORQUE THEM TO THE MANUFACTURERS RECOMMENDATIONS. INSTALL FLEXIBLE P-605 SEALER PER DETAIL 3/94
3. RE-USE EXISTING LIGHT FIXTURE. CONTRACTOR SHALL VERIFY ALL LIGHTS ARE IN WORKING CONDITION PRIOR TO FINAL COMPLETION.
4. EXISTING LENS COLOR AND CONFIGURATION VARIES. REINSTALL LENS WITH COLOR AND CONFIGURATION TO MATCH EXISTING.
5. CONTRACTOR SHALL DETERMINE THE HEIGHT ADJUSTMENT REQUIRED FOR EACH LIGHT TO BE RAISED AND PROVIDE TO ENGINEER FOR APPROVAL.
6. ALL L-823 CONNECTORS SHALL BE REPLACED WITH NEW, SEE DETAIL 5/93

FLUSH MOUNTED RUNWAY LIGHT ADJUSTMENT DETAIL

NTS — 2/94

TriAxis Engineering, Inc.

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NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL DETAILS

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AIP NO. 3-41-0040-021

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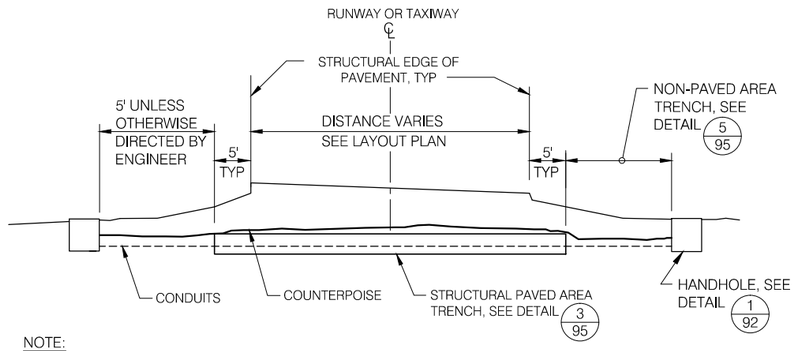
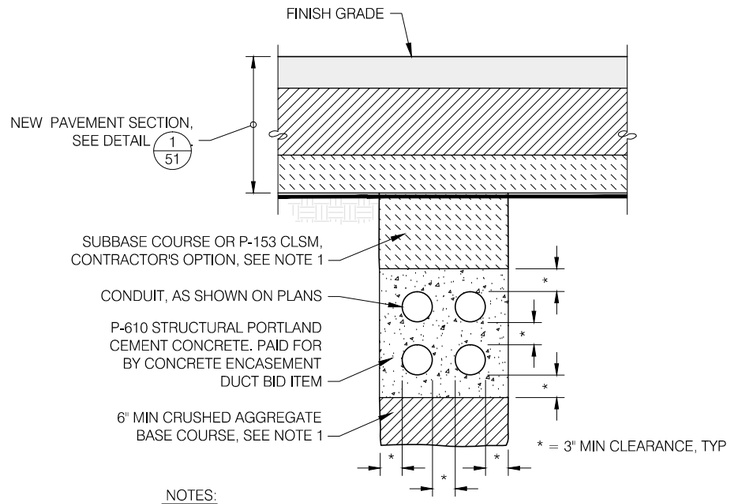
SHEET NO. 94 OF 108



NOTE:

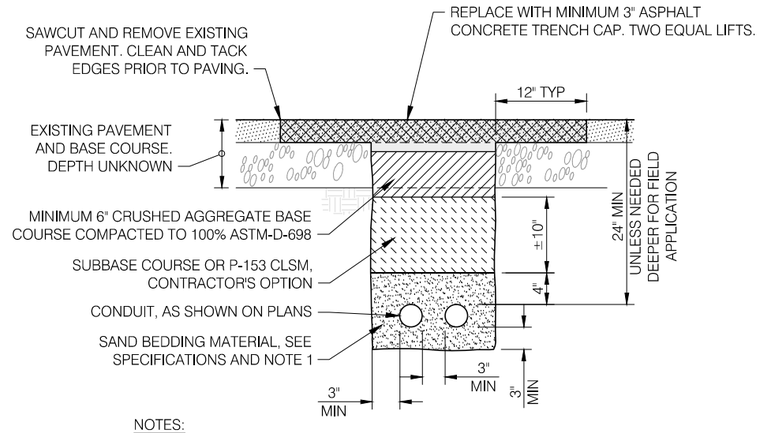
FOR EXTENSION OF EXISTING STRUCTURAL PAVED AREA TRENCH SEE DETAIL 2/95.

PAVEMENT CONDUIT CROSSING DETAIL 1/95
NTS



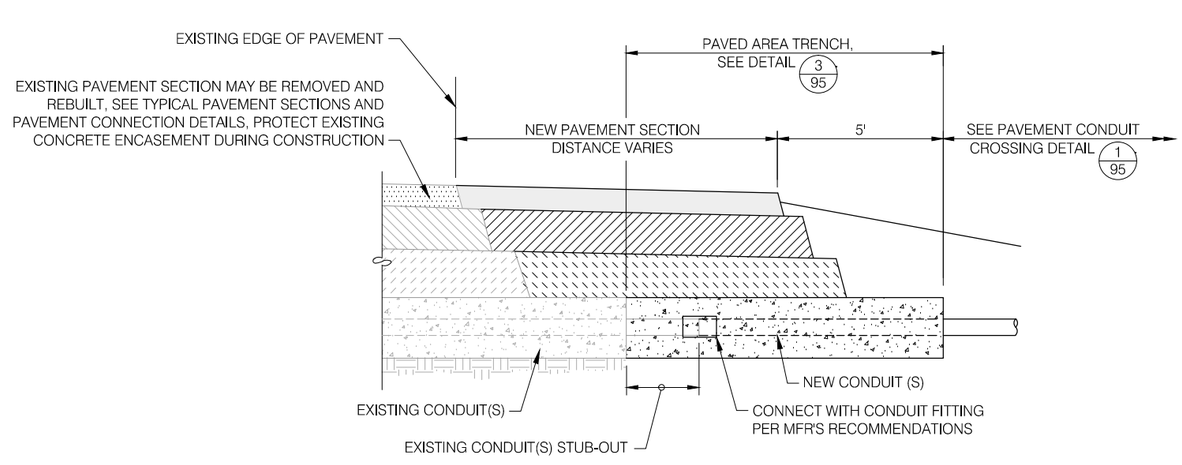
NOTES:
1. BACKFILL CONSIDERED INCIDENTAL TO STRUCTURAL PAVED AREA TRENCH BID ITEM.
2. DUCTS PLACED PRIOR TO CONSTRUCTING NEW PAVEMENT SECTION.

STRUCTURAL PAVED AREA TRENCH DETAIL 3/95
NTS

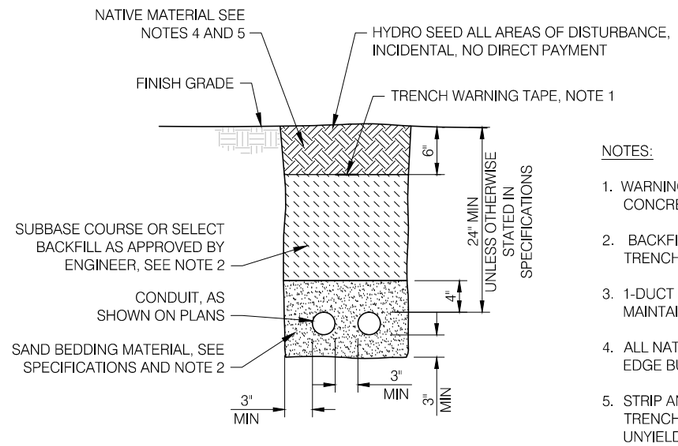


NOTES:
1. BACKFILL INCLUDING AC CAP IS CONSIDERED INCIDENTAL TO NON-STRUCTURAL PAVED AREA TRENCH BID ITEM.
2. 1-DUCT INSTALLATION SIMILAR. MORE THAN TWO DUCTS MAINTAIN HORIZONTAL AND VERTICAL SPACING.

NON-STRUCTURAL PAVED AREA TRENCH DETAIL 4/95
NTS



EXISTING PAVEMENT CONDUIT CROSSING EXTENSION DETAIL 2/95
NTS



NOTES:
1. WARNING TAPE NOT REQUIRED FOR DUCT(S) ENCASED IN CONCRETE.
2. BACKFILL CONSIDERED INCIDENTAL TO NON-PAVED AREA TRENCH BID ITEM.
3. 1-DUCT INSTALLATION SIMILAR. MORE THAN TWO DUCTS MAINTAIN HORIZONTAL AND VERTICAL SPACING.
4. ALL NATIVE MATERIAL SHALL BE REMOVED WITH A SMOOTH EDGE BUCKET TO MINIMIZE SUBGRADE DISTURBANCE.
5. STRIP AND STOCKPILE NATIVE TOP SOIL PRIOR TO TRENCHING, PLACE AND COMPACT TO A DENSE AND UNYIELDING CONDITION AS APPROVED BY THE ENGINEER PRIOR TO HYDROSEEDING

NON-PAVED AREA TRENCH DETAIL 5/95
NTS

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER — OREGON — MICHAEL DAVID BEAULIEU — EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
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CHECKED: GWV
REVISION NUMBER: 0
SCALE: AS SHOWN

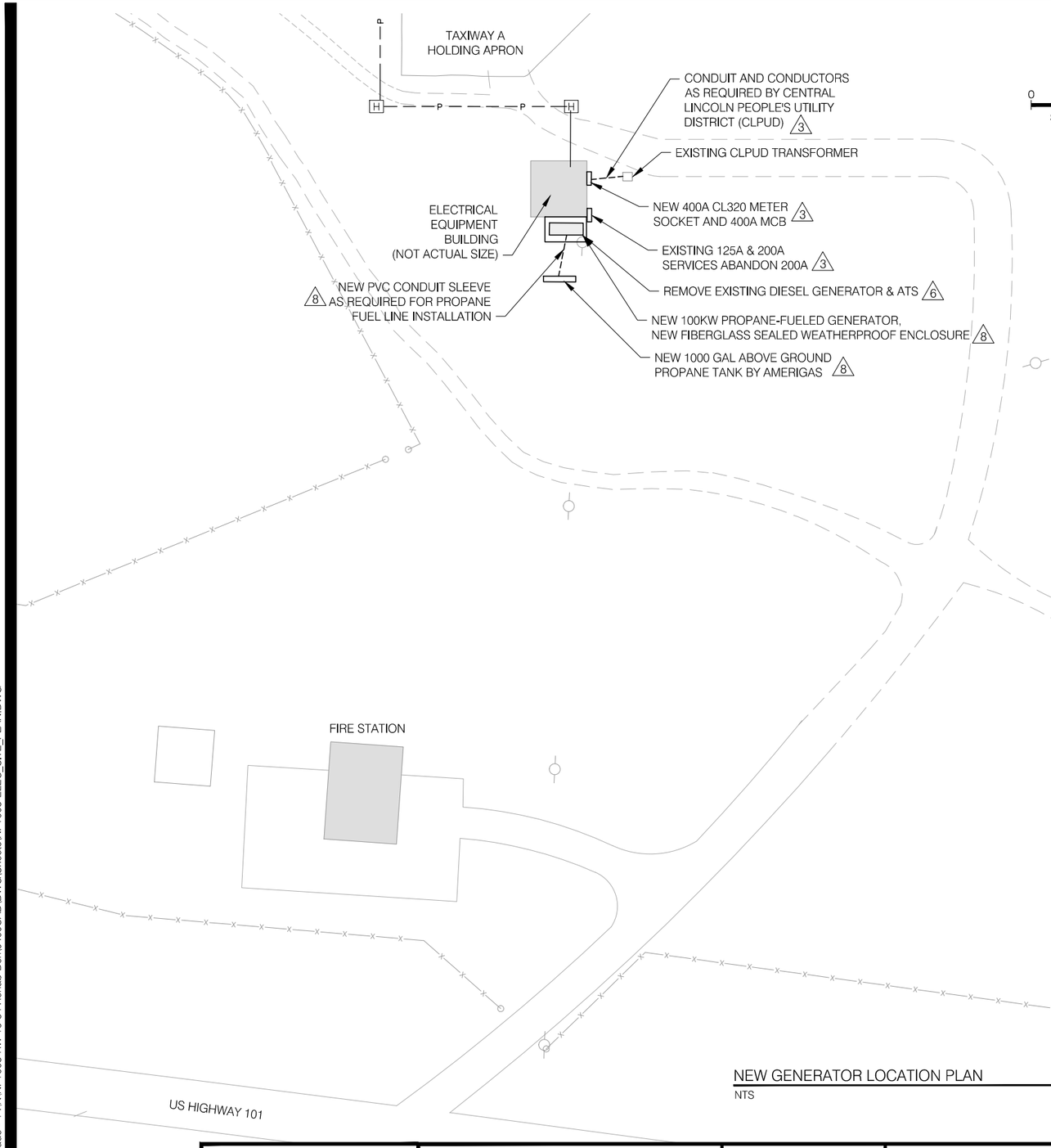
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 95 OF 108



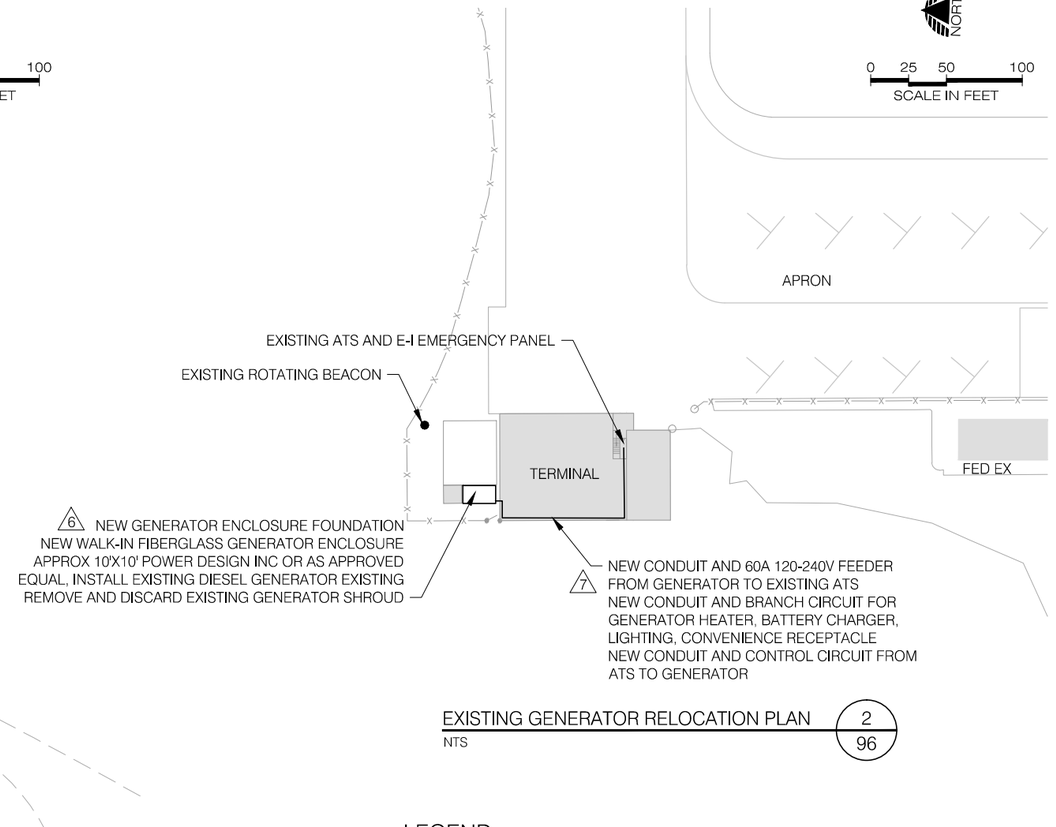
NORTH

0 25 50 100

SCALE IN FEET

NEW GENERATOR LOCATION PLAN 1

NTS 96



NORTH

0 25 50 100

SCALE IN FEET

EXISTING GENERATOR RELOCATION PLAN 2

NTS 96

LEGEND

FOR ASSISTANCE IN ASSIGNING AND CLARIFYING VARIOUS WORK ELEMENTS ASSOCIATED WITH ELECTRICAL IMPROVEMENTS AT THE ELECTRICAL EQUIPMENT BUILDING AND TERMINAL BUILDING.

WORK INCLUDED AND PAID FOR AS FOLLOWS:

1. BASE BID SCHEDULE, BID ITEM 38, L-828, 7.5kW MIRL REGULATOR
2. BASE BID SCHEDULE, BID ITEM 39, L-828, 20kW HIRL REGULATOR
3. BASE BID SCHEDULE, BID ITEM 40, ELECTRICAL SERVICE UPGRADE
4. BASE BID SCHEDULE, BID ITEM 41, MISCELLANEOUS ELECTRICAL BUILDING IMPROVEMENTS
5. BASE BID SCHEDULE, BID ITEM 42, ELECTRICAL SERVICE TO AWOS AND WINDCONE
6. ADDITIVE BID SCHEDULE, BID ITEM A1, RELOCATE AND ENCLOSE EXISTING 35kW GENERATOR
7. ADDITIVE BID SCHEDULE, BID ITEM A2, NON-AIP ELIGIBLE TERMINAL BUILDING ELECTRICAL IMPROVEMENTS
8. ADDITIVE BID SCHEDULE, BID ITEM A3, NEW 100kW GENERATOR

TriAxis Engineering, Inc.

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REGISTERED PROFESSIONAL ENGINEER
OREGON
MICHAEL DAVID BEARDSLEE
EXPIRES 12/31/2013

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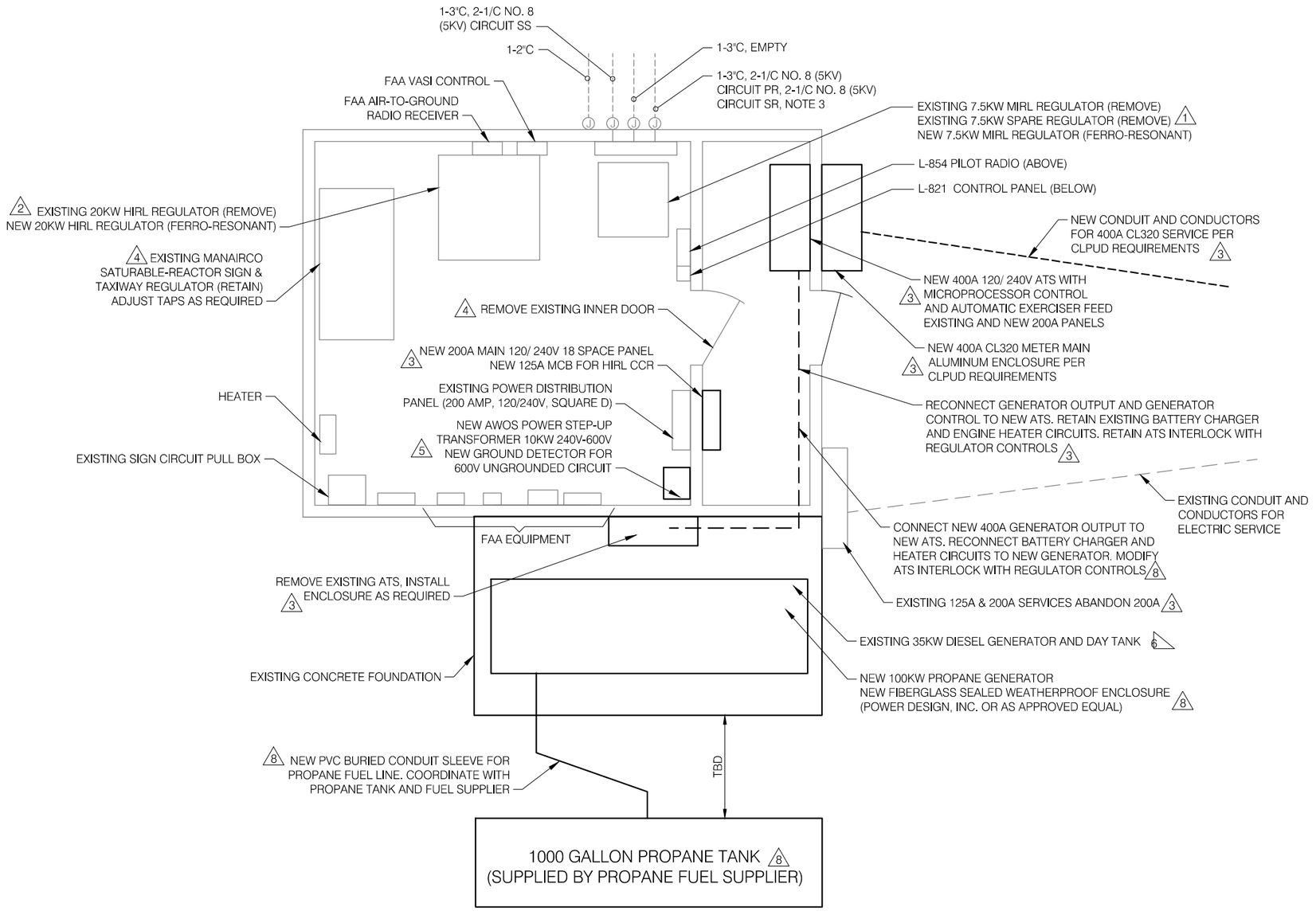
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL EQUIPMENT BUILDING SITE PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 96 OF 108



FOR LEGEND SEE SHEET 96

ELECTRICAL EQUIPMENT BUILDING PLAN VIEW
LOCATIONS AND SIZE OF EXISTING AND NEW EQUIPMENT SHOWN AS REPRESENTATIVE ONLY

ELECTRICAL EQUIPMENT BUILDING IMPROVEMENT DETAIL 1/97
NTS

TriAxis Engineering, Inc.
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NEWPORT MUNICIPAL AIRPORT
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ELECTRICAL DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

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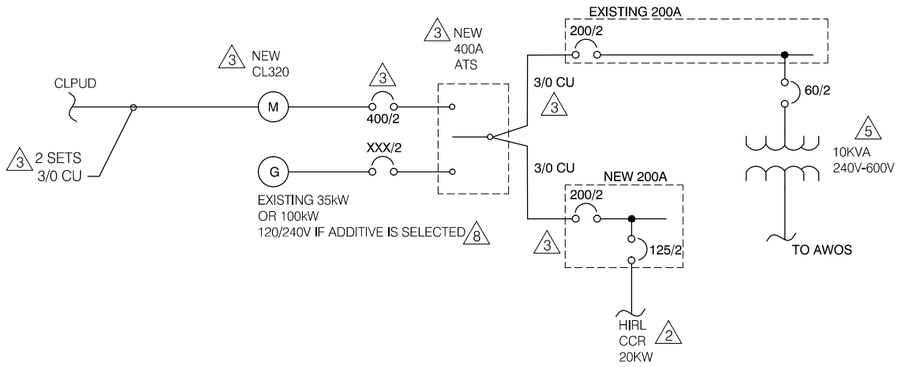
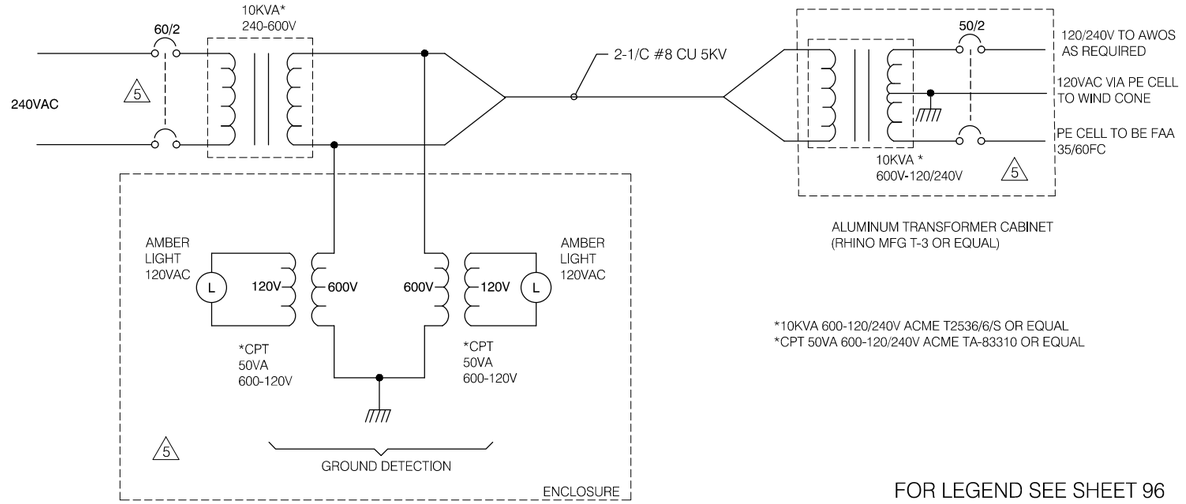
SHEET NO. 97 OF 108



ELECTRIC SERVICE PLAN



*10KVA 600-120/240V ACME T2536/6/S OR EQUAL
*CPT 50VA 600-120/240V ACME TA-83310 OR EQUAL

AWOS & WIND CONE POWER

FOR LEGEND SEE SHEET 96

	PANEL EXISTING						120/240V	
#	Description	OCPD	VA	PH	VA	OCPD	Description	#
	Unused		0	A	0		Unused	
1	Space		0	B	0		Space	2
3	7.5kW Sign Regulator	100	6000	A	0		Space	4
5	"	100	6000	B	0		Space	6
7	Spare 50A		0	A	0		Space	8
9	"		0	B	0		Spare 30A	10
11	20kW HIRL Regulator	125	12600	A	0		"	12
13	"	125	12600	B	0		Spare 30A	14
15	Exhaust Fan	20	300	A	0		"	16
17	Spare 20A		0	B	100	20	Controls	18
19	Generator Heater	20	500	A	200	20	Lights	20
21	Spare 20A		0	B	1000	20	Heater 2kw	22
23	"		0	A	1000	20	"	24
25	7.5kW MIRL Regulator	40	4100	B	0		Spare 40A	26
27	"	40	4100	A	0		"	28
	Spare 90A		0	A				
	"		0	B				
				VA	Amps			
	Rated 200A		A-Phase	24700	206			
	Single Phase		B-Phase	23800	198			
	3 Wire							
	200A OCPD		Total	48500				

	PANEL REVISED						120/240V	
#	Description	OCPD	VA	PH	VA	OCPD	Description	#
	Unused		0	A	0		Unused	
1	Space		0	B	0		Space	2
3	7.5kW Sign Regulator	100	6000	A	0		Space	4
5	"	100	6000	B	0		Space	6
7	Spare 50A		0	A	0		Space	8
9	"		0	B	0		Spare 30A	10
11	AWOS Power	60	1000	A	0		"	12
13	"	60	1000	B	0		Spare 30A	14
15	Exhaust Fan	20	300	A	0		"	16
17	Spare 20A		0	B	100	20	Controls	18
19	Generator Heater	20	500	A	200	20	Lights	20
21	Spare 20A		0	B	1000	20	Heater	22
23	"		0	A	1000	20	"	24
25	7.5kW MIRL Regulator	40	4100	B	0		Spare 40A	26
27	"	40	4100	A	0		"	28
	Spare 90A		0	A				
	"		0	B				
				VA	Amps			
	Rated 200A		A-Phase	13100	109			
	Single Phase		B-Phase	12200	102			
	3 Wire							
	200A OCPD		Total	25300				

	PANEL NEW						120/240V	
#	Description	OCPD	VA	PH	VA	OCPD	Description	#
1	20kW HIRL Regulator	125	12600	A	0			2
3	"	125	12600	B	0			4
5			0	A	0			6
7			0	B	0			8
9			0	A	0			10
11			0	B	0			12
13			0	A	0			14
15			0	B	0			16
17			0	A	0			18
				VA	Amps			
	Rated 200A		A-Phase	12600	105			
	Single Phase		B-Phase	12600	105			
	3 Wire							
	200A OCPD		Total	25200				

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER 2007 OREGON MICHAEL DAVID BEAULIEU EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

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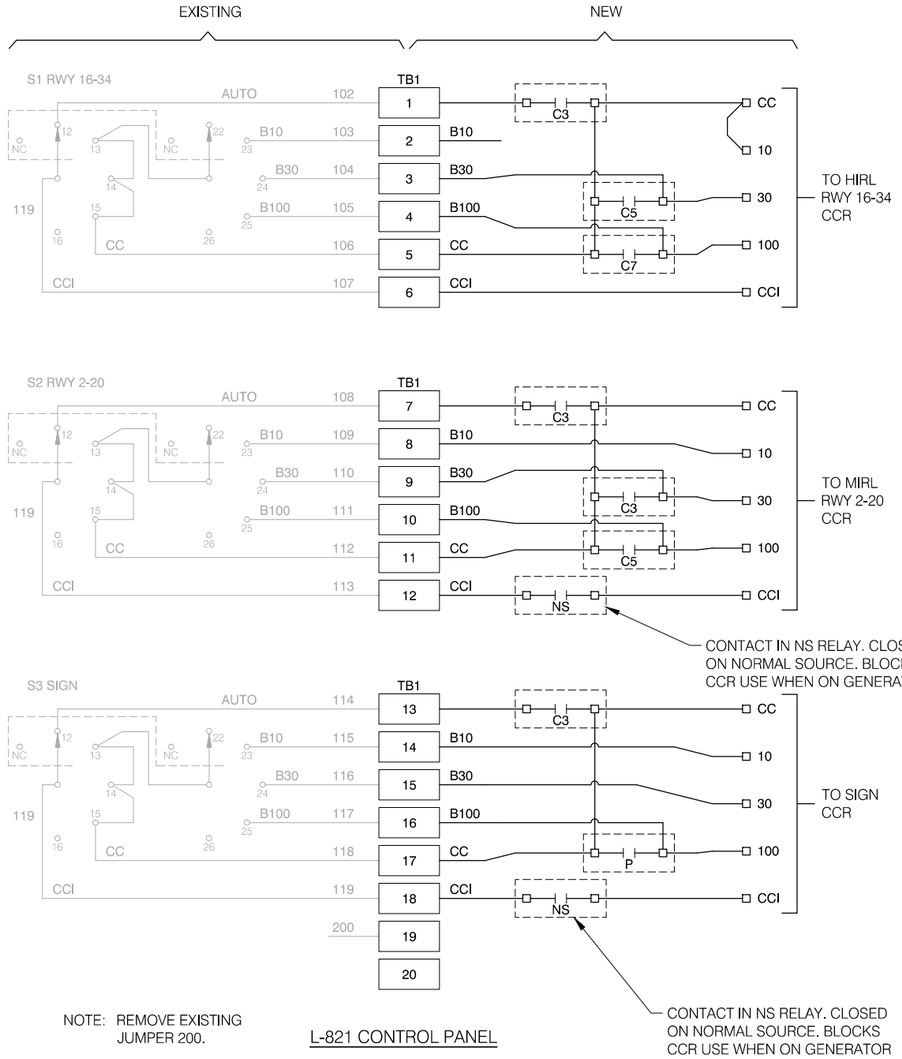
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

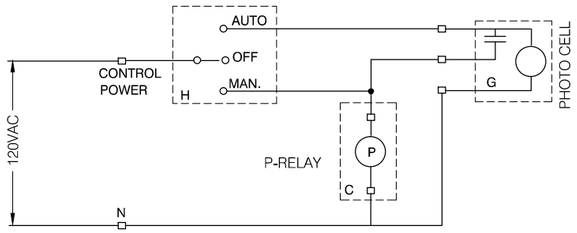
PROJECT NUMBER: **NPT008**

SHEET NO. **98** OF **108**

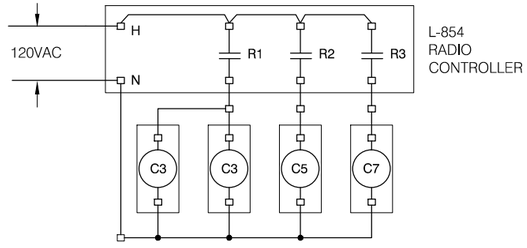


NOTE: REMOVE EXISTING JUMPER 200.

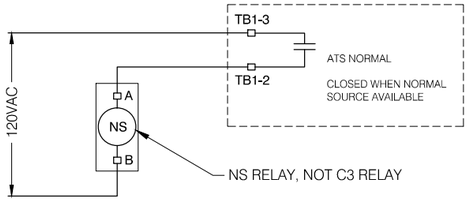
L-821 CONTROL PANEL



PHOTOELECTRIC CONTROL



RADIO CONTROL



TRANSFER SWITCH INTERLOCK

NOTES:

1. DISCONNECT FAA RADIO CONTROLS FROM L-821 CONTROL PANEL, WIRE THESE CONTROLS THROUGH THE PANEL WITHOUT LANDING; COORDINATE WORK WITH FAA. REMOVE THE AUXILIARY RELAYS AND SOCKETS FROM THE L-821 PANEL. DISCONNECT THE REGULATOR CONTROL WIRING FROM THE L-841 AUXILIARY RELAY PANEL. REMOVE THE L-841 AUXILIARY RELAY PANEL.

2. INSTALL NEW DIN RAIL AND SIX 3PDT RELAYS, SIMILAR TO TYCO KUP-14A15-120 IN 27E893 DIN-RAIL SOCKETS IN THE L-821 PANEL. THESE RELAYS ARE THE "P", "C3"(2X), "C5", "C7" AND "NS" RELAYS.

3. INSTALL ONE 3-POSITION ELECTROSWITCH 31302A, SIMILAR TO EXISTING, IN DOOR OF L-821 CONTROL PANEL. LABEL "PHOTOCELL, AUTO-OFF-MANUAL" SIMILAR TO EXISTING NAMEPLATES.

4. CONNECT PHOTOCELL CONTROL SWITCH, PHOTOCELL, AND "P" RELAY AS SHOWN IN SCHEMATIC DIAGRAM. "P" RELAY IS TO BE CONTROLLED BY THE PHOTOCELL OR MANUALLY.

5. INSTALL NEW L-854 PILOT CONTROL RADIO ABOVE L-821 CONTROL PANEL. PROVIDE WITH 120VAC POWER FROM MAIN ELECTRIC PANEL. CONNECT OUTPUTS OF PILOT CONTROL RADIO TO DRIVE FOUR 3PDT RELAYS (C3, C5, C7) AS SHOWN IN THE SCHEMATIC.

6. INSTALL WIRES FROM THE AUTOMATIC TRANSFER SWITCH TO THE "NS" (NORMAL SOURCE) RELAY IN THE L-821 CONTROL PANEL. CONNECT TO TERMINALS AS INDICATED IN THE SCHEMATIC OR AS REQUIRED SO THAT THE NS RELAY IS ENERGIZED WHEN THE TRANSFER SWITCH IS IN THE NORMAL POWER STATE.

7. CONNECT THE R/W 16-34 HIRL REGULATOR AS SHOWN IN THE SCHEMATIC. FUNCTIONALLY, THE LIGHTS ARE TO OPERATE AT 10% UPON 3-CLICKS; 30% UPON 5-CLICKS AND 100% UPON 7-CLICKS.

8. CONNECT THE R/W 12-20 MIRL REGULATOR AS SHOWN IN THE SCHEMATIC. FUNCTIONALLY, THE LIGHTS ARE TO OPERATE AT 30% ON 3-CLICKS, AND 100% UPON 5-CLICKS. THE R/W 12-20 MIRL REGULATOR IS TO BE BLOCKED FROM OPERATION WHEN THE ATS IS NOT ON NORMAL SOURCE.

9. CONNECT THE SIGN REGULATOR AS SHOWN IN THE SCHEMATIC. FUNCTIONALLY, THE SIGNS ARE TO OPERATE UPON 3-CLICKS AT 100% DURING THE NIGHT. THE SIGN REGULATOR IS TO BE BLOCKED FROM OPERATION WHEN THE ATS IS NOT ON NORMAL SOURCE.

TriAxis Engineering, Inc.

PRECISION APPROACH ENGINEERING
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REGISTERED PROFESSIONAL ENGINEER — OREGON — MICHAEL DAVID BRAULICK — EXPIRES: 12/31/2013

REVISIONS: DATE APPD.

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REVISION NUMBER:	0
SCALE:	AS SHOWN

NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

ELECTRICAL DETAIL

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

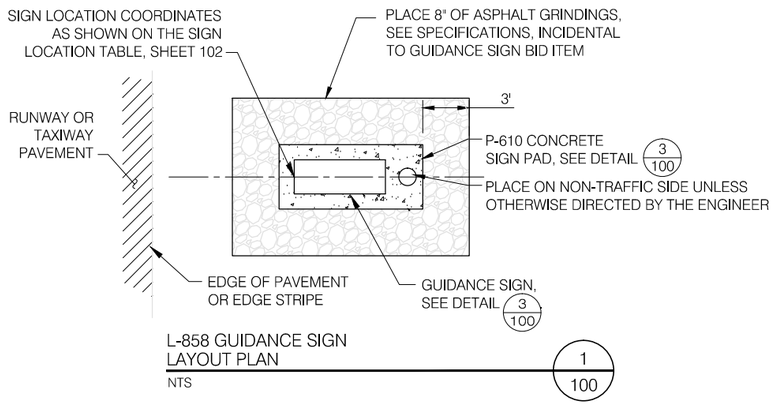
PROJECT NUMBER: **NPT008**

SHEET NO. **99** OF **108**

L-858 GUIDANCE SIGN LAYOUT NOTES:

1. ORIENTATION OF SIGN AND SIGN PAD TO BE VERIFIED WITH ENGINEER IN THE FIELD AFTER LOCATION IS IDENTIFIED AND PRIOR TO CONSTRUCTION.

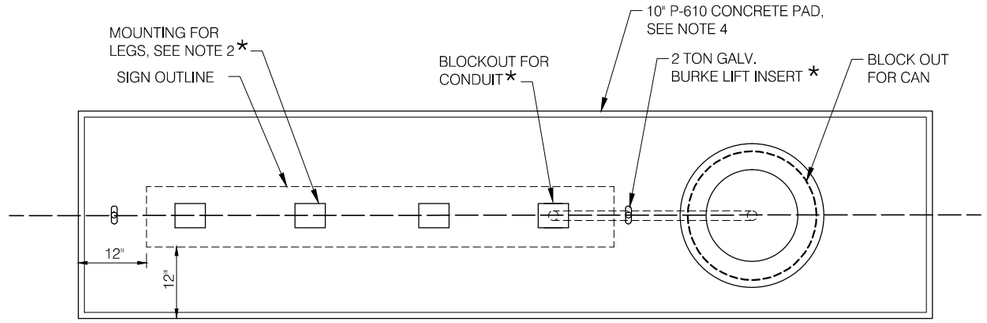
2. ALL WORK AND MATERIALS, TO INCLUDE 2-INCH CONDUIT AND CABLE, WITHIN THE LIMITS SHOWN IN THE SIGN INSTALLATION PLAN. SIGN, BASE CAN, UNCLASSIFIED EXCAVATION, PCC, NEW GRADING, FABRIC AND CRUSHED AGGREGATE BASE COURSE FOR SIGN INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO GUIDANCE SIGN BID ITEM. NO SEPARATE PAYMENT SHALL BE MADE.



L-858 GUIDANCE SIGN LAYOUT PLAN — NTS — 1/100

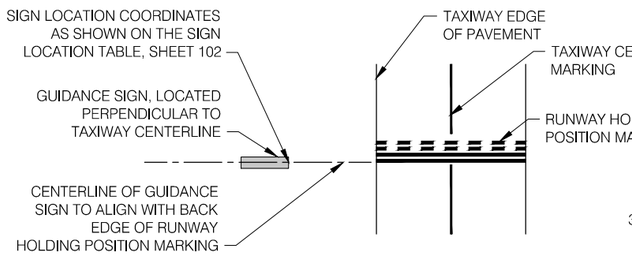
SIGN LEGEND NOTE:

CONTRACTOR SHALL VERIFY ALL PANEL SIZE AND LEGEND TEXT CONFIGURATION. ANY QUESTIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION PRIOR TO ORDERING MATERIALS.

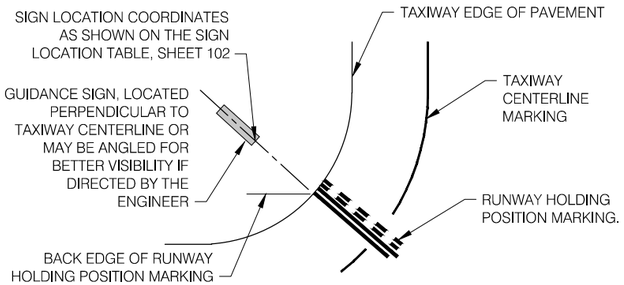


*IF PRECAST PAD IS USED

PLAN

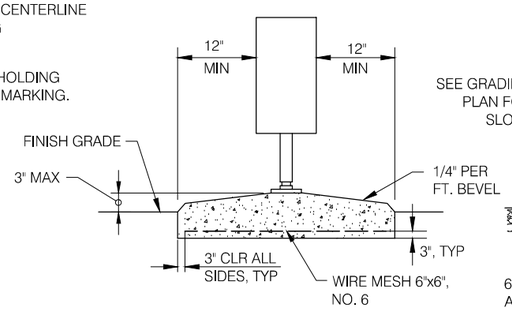


GUIDANCE SIGN LOCATION WITH STRAIGHT TAXIWAY CENTERLINE MARKING



GUIDANCE SIGN LOCATION WITH RADIUS TAXIWAY CENTERLINE MARKING

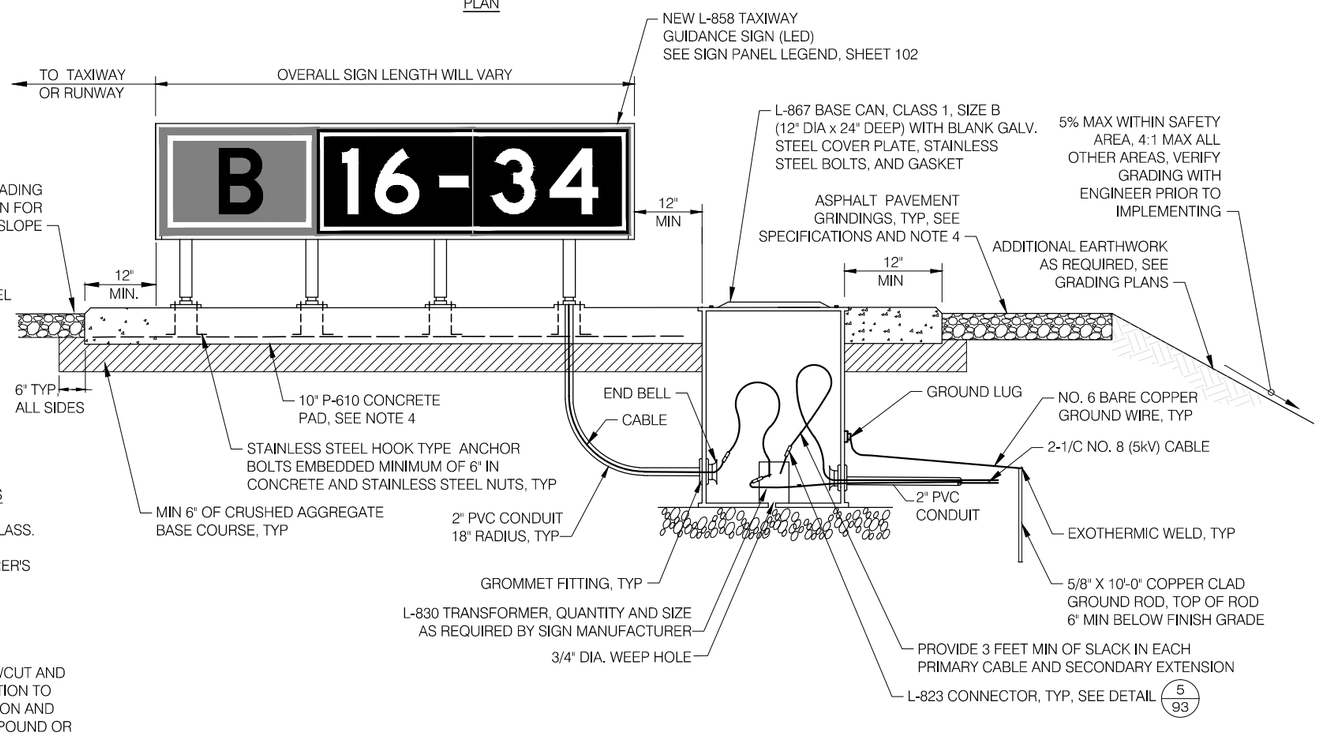
L-858 GUIDANCE LOCATING DETAIL — NTS — 2/100



SIDE VIEW

L-858 GUIDANCE SIGN INSTALLATION GENERAL NOTES

1. SEE SPECIFICATIONS FOR TYPE, SIZE, STYLE, AND CLASS.
2. NUMBER AND SPACING OF LEGS PER MANUFACTURER'S REQUIREMENTS.
3. INCLUDE TETHER (NOT SHOWN), INSTALL PER MANUFACTURERS RECOMMENDATIONS.
4. WHERE SIGN IS LOCATED IN PAVEMENT AREAS, SAWCUT AND REMOVE EXISTING PAVEMENT, POUR NEW FOUNDATION TO CUT EDGE OF AC. SEAL JOINT BETWEEN FOUNDATION AND EXISTING AC WITH APPROVED FLEXIBLE JOINT COMPOUND OR AS DIRECTED BY THE ENGINEER, FOUNDATION AND BASE SIMILAR TO AS SHOWN.



L-858 GUIDANCE SIGN INSTALLATION DETAIL — NTS — 3/100

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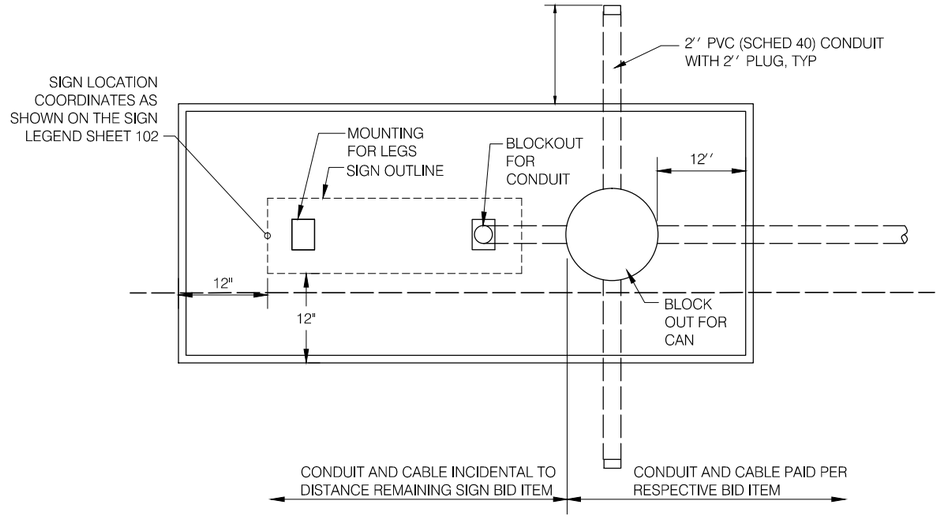
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

GUIDANCE SIGN - INSTALLATION DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

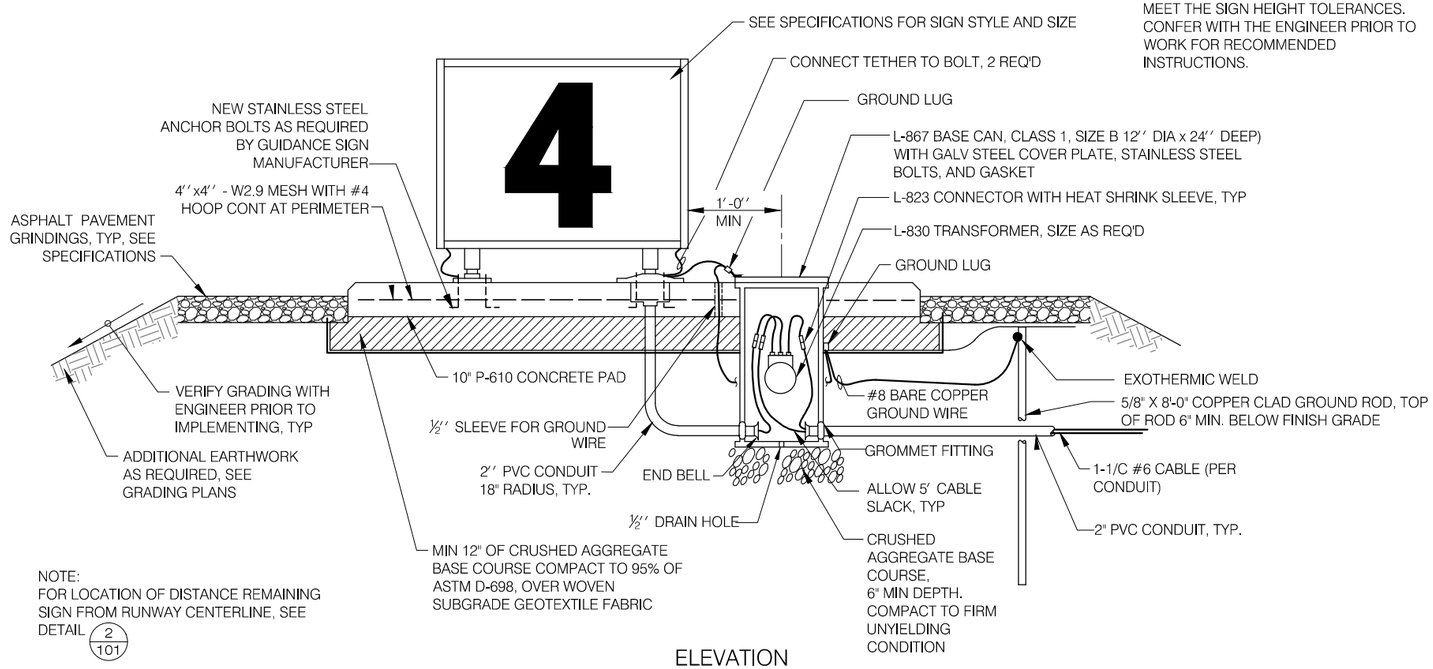
SHEET NO. 100 OF 108



PLAN

NOTES:

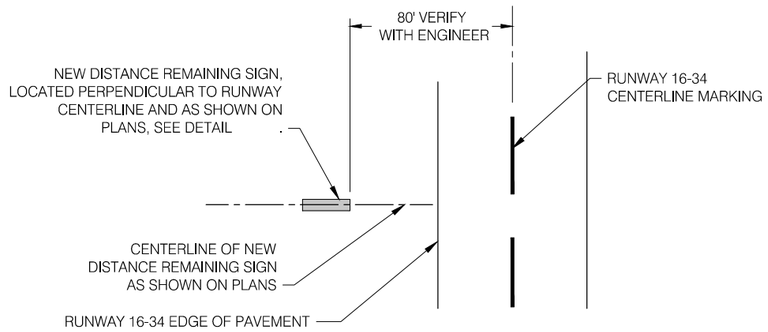
1. ORIENTATION AND ELEVATION OF SIGN AND SIGN PAD TO BE VERIFIED WITH ENGINEER IN THE FIELD AFTER LOCATION IS IDENTIFIED AND PRIOR TO CONSTRUCTION.
2. ALL WORK AND MATERIALS, TO INCLUDE 2-INCH CONDUIT AND CABLE, WITHIN THE LIMITS SHOWN IN THE SIGN INSTALLATION PLAN, SIGN, BASE CAN, UNCLASSIFIED EXCAVATION, PCC, NEW GRADING, FABRIC, CRUSHED AGGREGATE BASE COURSE, AND PAVEMENT GRINDING PLACEMENT, FOR SIGN INSTALLATION SHALL BE CONSIDERED INCIDENTAL TO DISTANCE REMAINING SIGN BID ITEM. NO SEPARATE PAYMENT SHALL BE MADE.
3. SIGN BASE ELEVATION TO BE REFERENCED FROM EXISTING GROUND AT END OF THE SIGN BASE CLOSEST TO PAVEMENT EDGE. IF NECESSARY, REGRADE GROUND AT SIGN BASE AND/OR ADJUST SIGN LEG LENGTHS TO MEET THE SIGN HEIGHT TOLERANCES. CONFER WITH THE ENGINEER PRIOR TO WORK FOR RECOMMENDED INSTRUCTIONS.



NOTE:
FOR LOCATION OF DISTANCE REMAINING SIGN FROM RUNWAY CENTERLINE, SEE DETAIL 2/101

ELEVATION

DISTANCE REMAINING SIGN INSTALLATION DETAIL — 1/101
NTS



NEW DISTANCE REMAINING SIGN LOCATION — 2/101
NTS

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
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NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

DISTANCE REMAINING-SIGN - INSTALLATION DETAILS

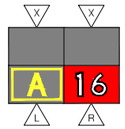
PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

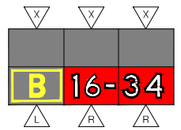
SHEET NO. 101 OF 108

SIGN PANEL LAYOUT

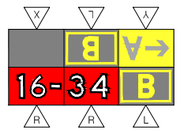
A 1 B



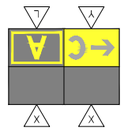
A 2 B



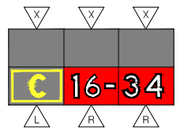
A 3 B



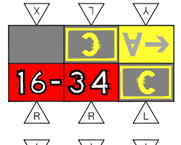
A 4 B



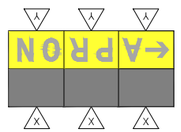
A 5 B



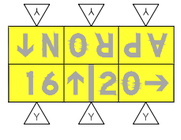
A 6 B



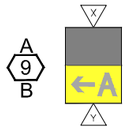
A 7 B



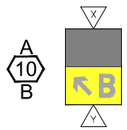
A 8 B



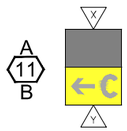
A 9 B



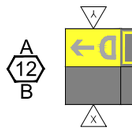
A 10 B



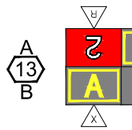
A 11 B



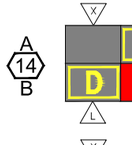
A 12 B



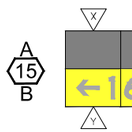
A 13 B



A 14 B



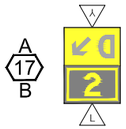
A 15 B



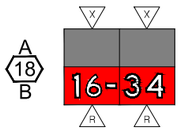
A 16 B

NON-LIT SIGN

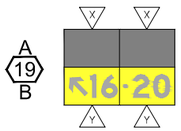
A 17 B



A 18 B



A 19 B



A 20 B

NO REPLACEMENT REQUIRED

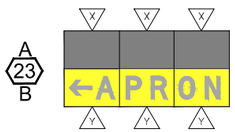
A 21 B

NON-LIT SIGN

A 22 B

NO REPLACEMENT REQUIRED

A 23 B



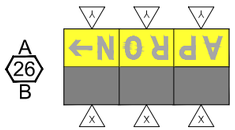
A 24 B

NON-LIT SIGN

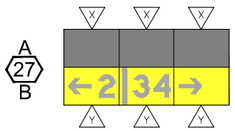
A 25 B

NO REPLACEMENT REQUIRED

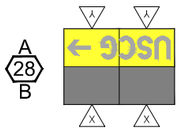
A 26 B



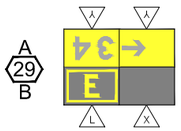
A 27 B



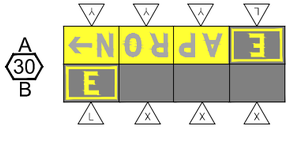
A 28 B



A 29 B



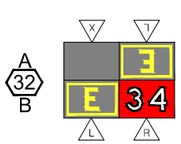
A 30 B



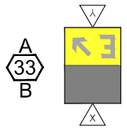
A 31 B

NOT USED

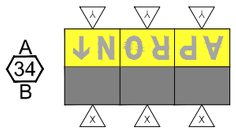
A 32 B



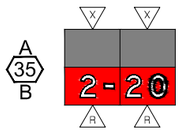
A 33 B



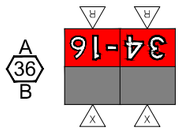
A 34 B



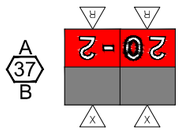
A 35 B



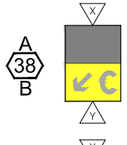
A 36 B



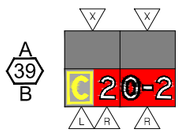
A 37 B



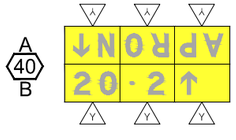
A 38 B



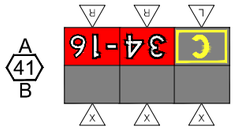
A 39 B



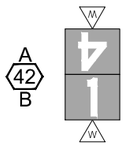
A 40 B



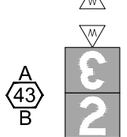
A 41 B



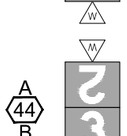
A 42 B



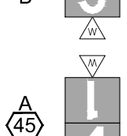
A 43 B



A 44 B



A 45 B



NOTE:
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR.
PRINTING IN BLACK AND WHITE MAY REDUCE READABILITY
AND ALTER ENTITY DEFINITION OR REPRESENTATION.

SIGN LOCATION TABLE

SIGN NO.	NORTHING	EASTING		SIGN NO.	NORTHING	EASTING
1	355920.85	7274940.25		24	*NON-LIT SIGN - NO ACTION REQ'D*	
2	355533.84	7274958.67		25	*NO SIGN REPLACEMENT*	
3	355461.76	7274889.37		26	352399.93	7274492.38
4	354609.15	7274849.33		27	352395.72	7274497.70
5	354585.97	7274943.94		28	351815.91	7274012.64
6	354500.78	7274944.18		29	351705.38	7273921.81
7	354542.78	7274764.65		30	351594.06	7273862.15
8	354475.85	7274765.00		31	*NOT USED*	
9	355795.94	7275013.81		32	350596.50	7274969.43
10	355304.73	7275015.16		33	350589.04	7275028.17
11	354477.98	7275017.44		34	352895.91	7274943.40
12	353141.58	7274857.62		35	352893.98	7275021.81
13	353118.50	7274848.45		36	353336.27	7275295.77
14	353060.89	7274734.02		37	353696.55	7275196.36
15	353065.33	7274711.22		38	354452.69	7276076.40
16	*NON-LIT SIGN - NO ACTION REQ'D*			39	354600.37	7276014.89
17	353054.91	7274883.99		40	354696.55	7275193.60
18	352905.76	7274779.27		41	354503.92	7275244.17
19	352867.65	7274747.60		42	354696.56	7275190.88
20	*NO SIGN REPLACEMENT*			43	353696.55	7275196.36
21	*NON-LIT SIGN - NO ACTION REQ'D*			44	352696.56	7275199.12
22	*NO SIGN REPLACEMENT*			45	351696.56	7275201.87
23	352322.94	7274303.71				

SIGN PANEL LEGEND

△Y 

L-858Y
Direction, Destination and Boundary signs - black legend on a yellow background.

△R 

L-858R
Mandatory Instruction sign - 3/4" ±1/8" black outline on outside edge of white legend on red background.

△L

L-858L
Taxiway Location sign - yellow legend and border on a black background.

△X

L-858
Taxiway Location sign - black panel.

SIGN PANEL LEGEND NOTE:
CONTRACTOR SHALL VERIFY ALL PANEL SIZE AND LEGEND TEXT CONFIGURATION. ANY QUESTIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION PRIOR TO ORDERING MATERIALS.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

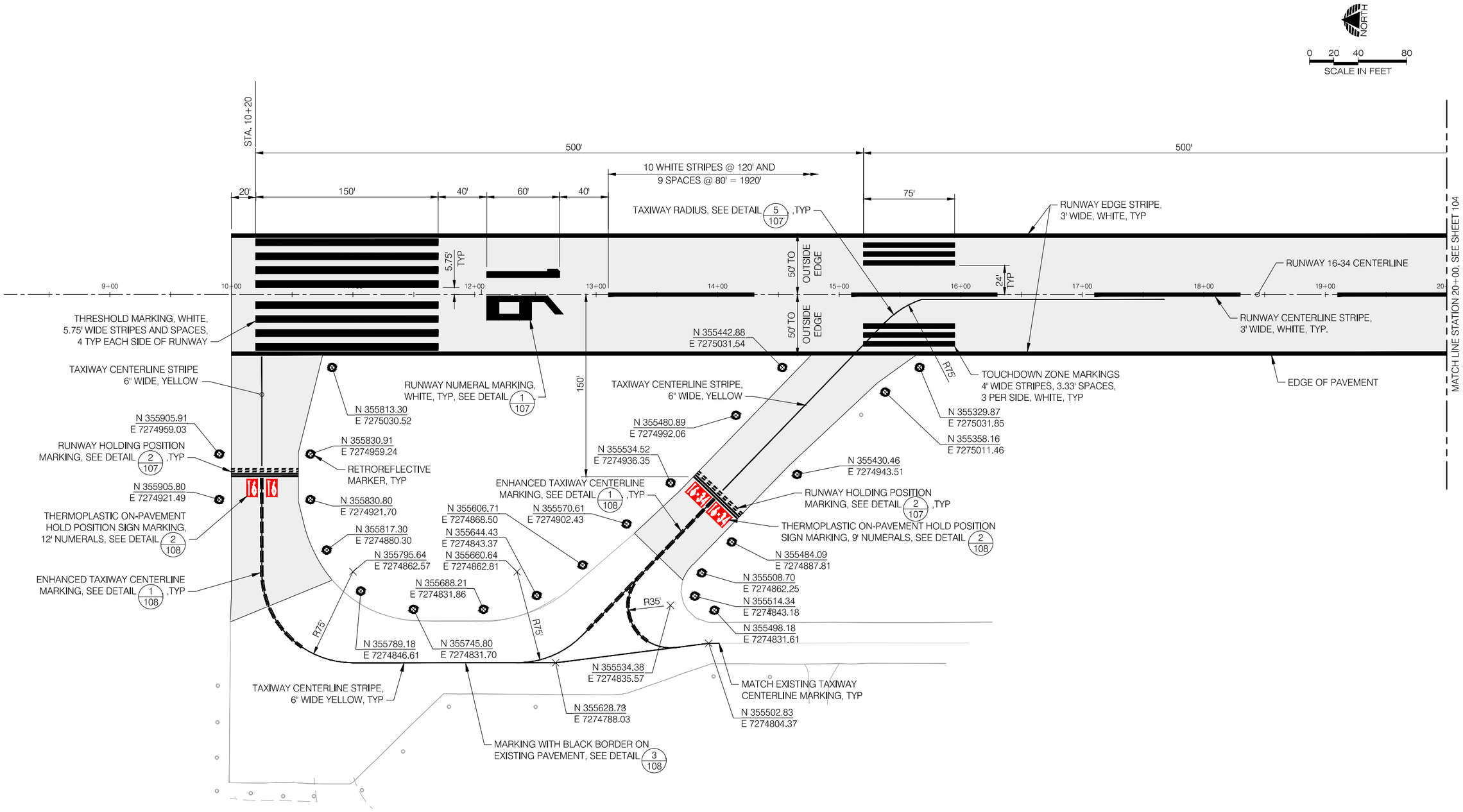
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

GUIDANCE SIGN - PANEL DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **102** OF **108**



NOTE:
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AND ALTER ENTITY DEFINITION OR REPRESENTATION.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
2269PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES: 6/30/2014

REVISIONS: DATE APPD.

DATE: JUNE 2013
DESIGN: TLK
DRAWN: JAW
CHECKED: GWV
REVISION NUMBER: 0

SCALE: AS SHOWN

NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

PAVEMENT MARKING AND RETROREFLECTIVE MARKER PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 103 OF 108

MATCH LINE THIS SHEET

N 354582.00
E 7275453.45

N 354512.00
E 7275453.64

TAXIWAY CENTERLINE STRIPE, 6" WIDE, YELLOW, TYP

N 354574.27
E 7275373.47

N 354519.27
E 7275373.62

RETROREFLECTIVE MARKER, TYP

ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL 1/108, TYP

N 354573.98
E 7275266.67

N 354518.98
E 7275266.82

THERMOPLASTIC ON-PAVEMENT HOLD POSITION SIGN MARKING, 9' NUMERALS, SEE DETAIL 2/108

TAXIWAY HOLD LINE MARKING, SEE DETAIL 2/107

9-27

500'

N 354573.82
E 7275209.87

N 354518.82
E 7275210.02

150'

250'

N 354573.69
E 7275159.87

N 354518.69
E 7275160.02

75'

20' TYP

R35'

R35'

50' TO OUTSIDE EDGE

RUNWAY 16-34 CENTERLINE

MATCH LINE STATION 20+00, SEE SHEET103

21+00 22+00 23+00 24+00 25+00 26+00 27+00 28+00 29+00 30+00 31+00

MATCH LINE STATION 32+00, SEE SHEET105

24' TYP

R35'

R35'

50' TO OUTSIDE EDGE

RUNWAY CENTERLINE STRIPE, 3' WIDE, WHITE, TYP.

AIMING POINT MARKING, WHITE, TYP

150'

N 354571.01
E 7275028.02

N 354516.01
E 7275028.17

TAXIWAY RADIUS, TYP, SEE DETAIL 5/107

TOUCHDOWN ZONE MARKINGS, 4' WIDE STRIPES, 3.33' SPACE, 2 PER SIDE, WHITE, TYP

RUNWAY EDGE STRIPE , 3' WIDE, WHITE, TYP

TAXIWAY CENTERLINE STRIPE, 6" WIDE YELLOW, TYP

N 354570.80
E 7274953.73

N 354515.80
E 7274953.88

THERMOPLASTIC ON-PAVEMENT HOLD POSITION SIGN MARKING, 12' NUMERALS, SEE DETAIL 2/108

16-34

TAXIWAY HOLD LINE MARKING, SEE DETAIL 2/107

N 354570.60
E 7274879.45

N 354515.60
E 7274879.60

N 354583.69
E 7274847.59

N 354502.33
E 7274847.81

BLACK BORDER ON EXISTING PAVEMENT, SEE DETAIL 3/108

N 354470.47
E 7274834.72

R35'

R35'

MATCH EXISTING TAXIWAY CENTERLINE MARKING, TYP

N 354615.47
E 7274834.32

N 354577.99
E 7274841.93

N 354507.79
E 7274841.93

TAXIWAY HOLD LINE MARKING, SEE DETAIL 2/107

THERMOPLASTIC ON-PAVEMENT HOLD POSITION SIGN MARKING, 9' NUMERALS, SEE DETAIL 2/108

9-27

150' TO RUNWAY CENTERLINE

ENHANCED TAXIWAY CENTERLINE MARKING, SEE DETAIL 1/108, TYP

MARKING WITH BLACK BORDER ON EXISTING PAVEMENT, SEE DETAIL 3/108

TAXIWAY CENTERLINE STRIPE, 6" WIDE, YELLOW, TYP

MARKING WITH BLACK BORDER ON EXISTING PAVEMENT, SEE DETAIL 3/108

MATCH LINE THIS SHEET

NORTH

0 20 40 80
SCALE IN FEET

NOTE:
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PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
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REGISTERED PROFESSIONAL ENGINEER
72693PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
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REVISIONS: DATE APPD.

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SCALE: AS SHOWN

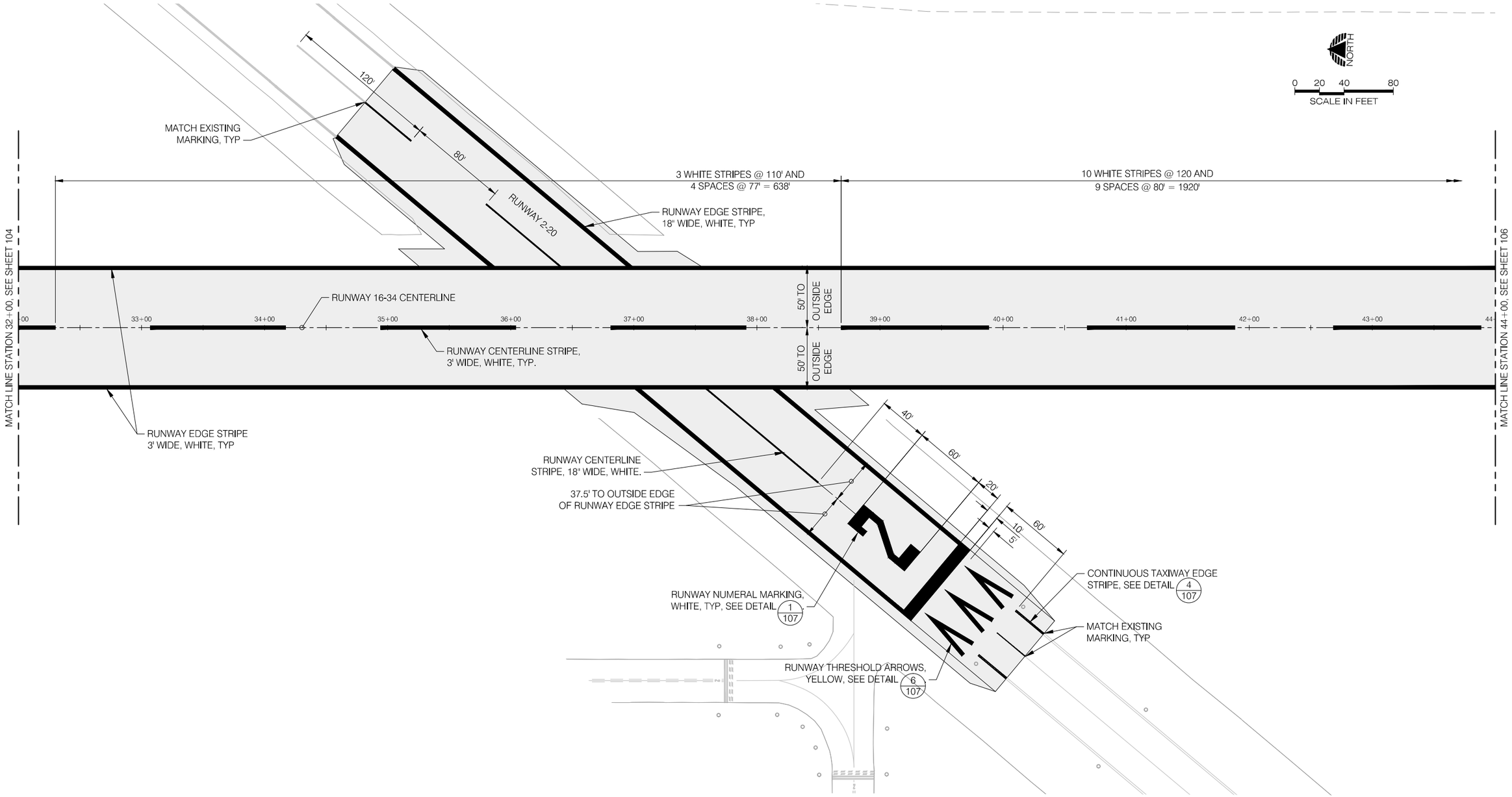
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

PAVEMENT MARKING AND RETROREFLECTIVE MARKER PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 104 OF 108



06/11/13 - 9:48pm - jwade - P:\N\NPT008-RW 16-34 Rehab-Dsn\0400CAD\DWG\Sheets\NPT008-MARKING-PLAN.dwg

NOTE:
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOR. PRINTING IN BLACK AND WHITE MAY REDUCE READABILITY AND ALTER ENTITY DEFINITION OR REPRESENTATION.

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

REGISTERED PROFESSIONAL ENGINEER
72993PE
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

REVISIONS: DATE APPD.

DATE:	JUNE 2013
DESIGN:	TLK
DRAWN:	JAW
CHECKED:	GWV
REVISION NUMBER:	0
SCALE:	AS SHOWN

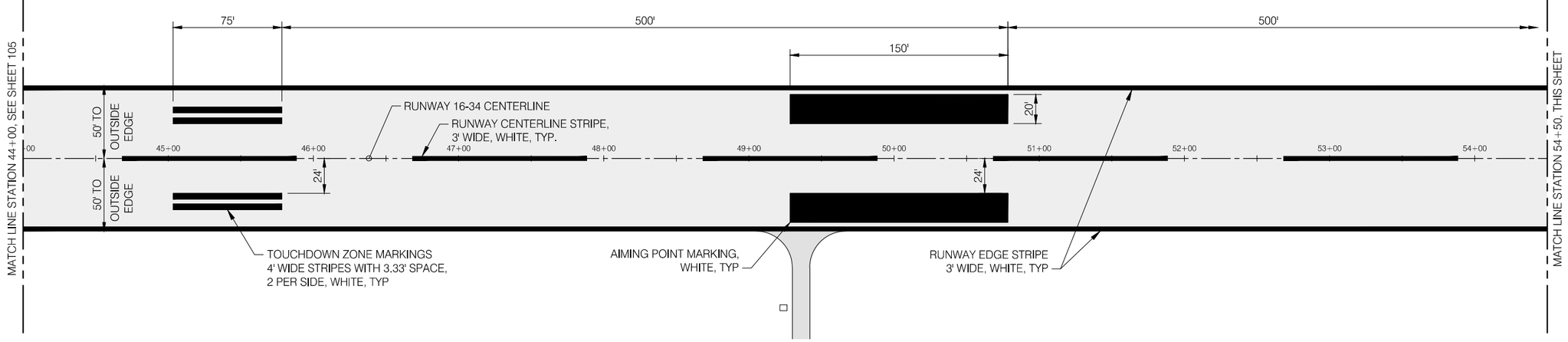
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

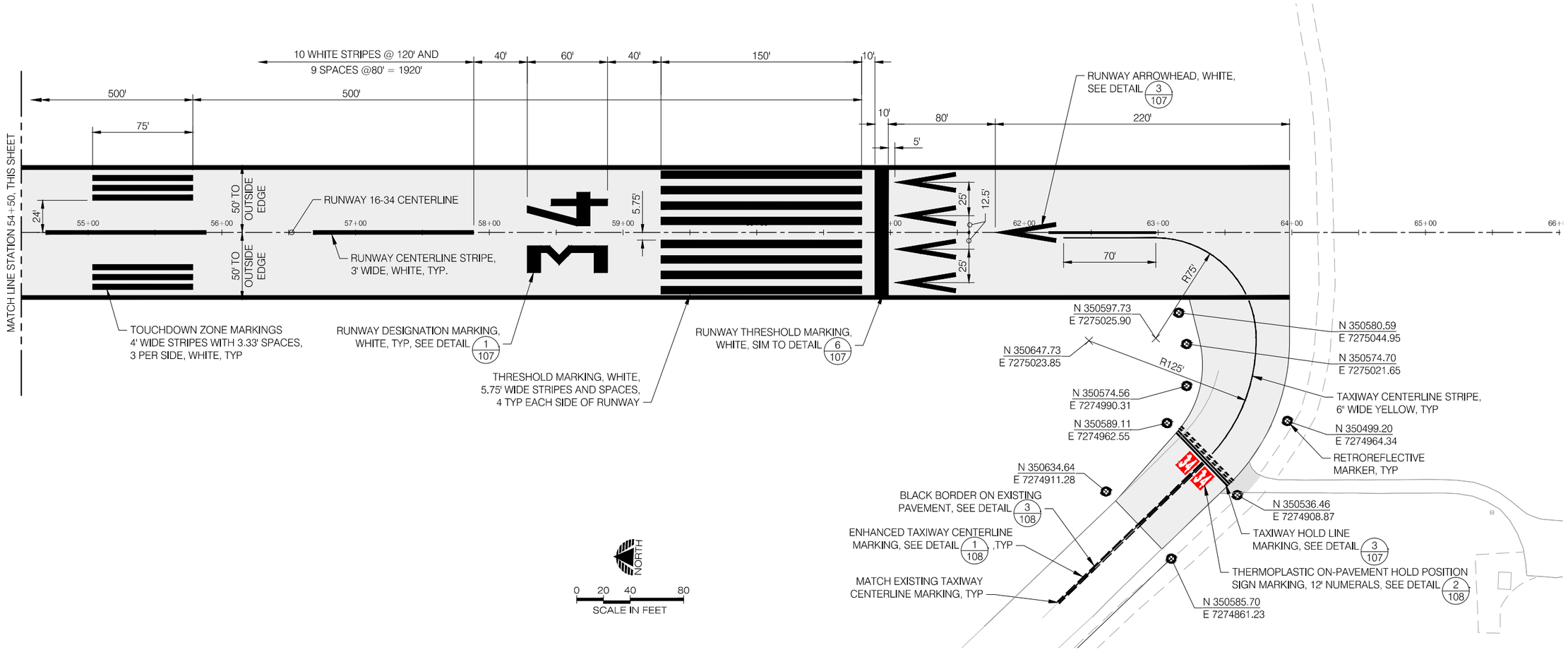
PAVEMENT MARKING AND RETROREFLECTIVE MARKER PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **105** OF **108**





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OREGON
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GEOFF W. VAUGHN
EXPIRES: 6/30/2014

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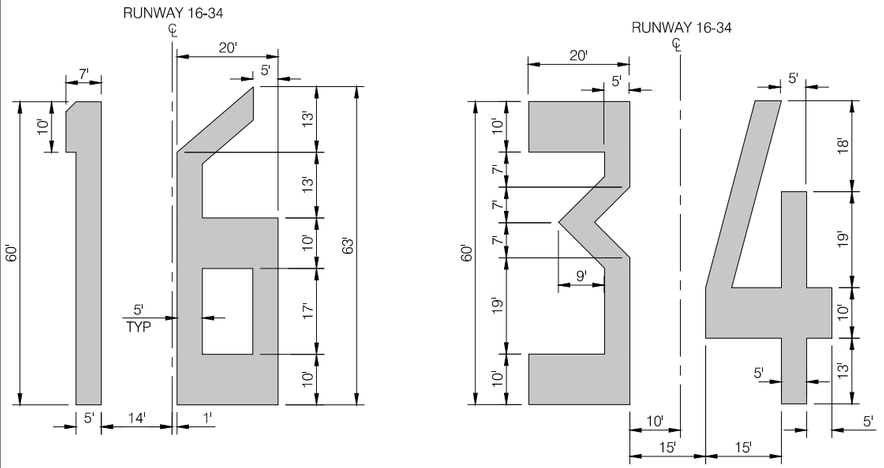
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

PAVEMENT MARKING AND RETROREFLECTIVE MARKER PLAN

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

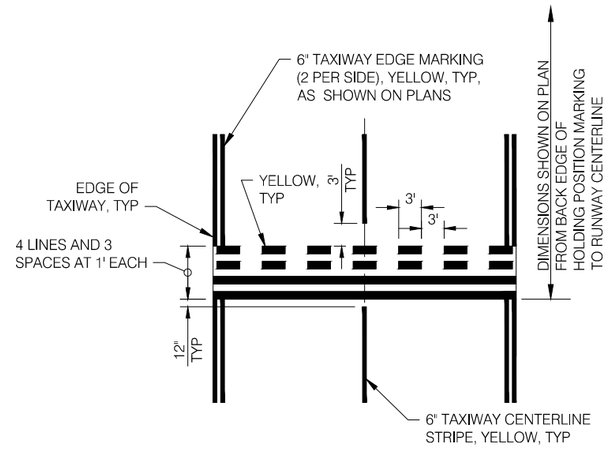
SHEET NO. **106** OF **108**



RUNWAY NUMERAL MARKING DETAIL

NTS

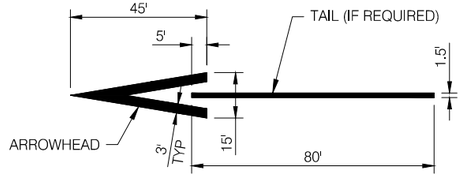
1
107



RUNWAY HOLDING POSITION
MARKING DETAIL - PATTERN A

NTS

2
107

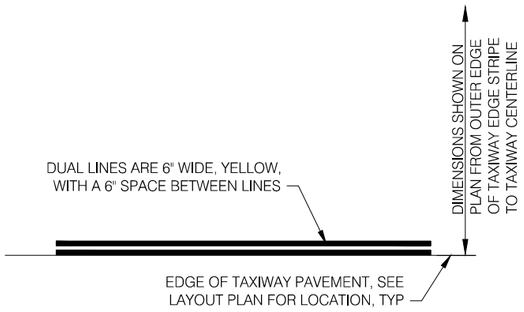


NOTE: SEE PLAN FOR COLOR

ARROWHEAD MARKING
DETAIL

NTS

3
107

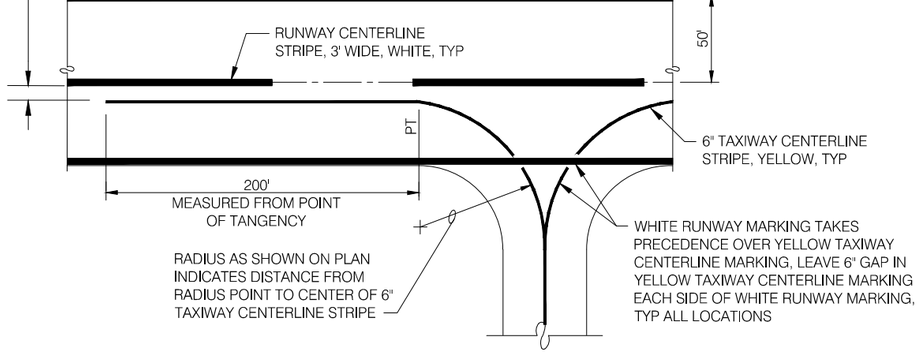


NOTE: SEE PLAN FOR TYPE

TAXIWAY EDGE MARKING DETAIL

NTS

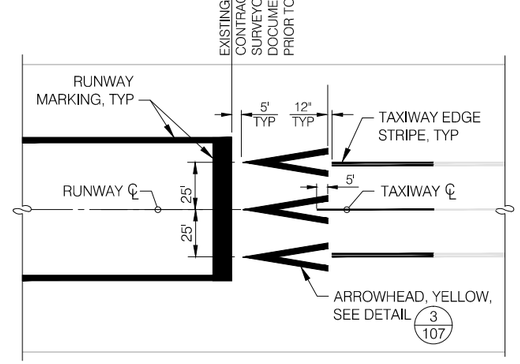
4
107



TAXIWAY RADIUS DETAIL

NTS

5
107



RUNWAY 2
THRESHOLD MARKING DETAIL

NTS

6
107

06/11/13 - 9:49pm - jwade - P:\N\NPT008-RW 16-34 Rehab-Dsn\0400CAD\DWG\Sheets\NPT008-MARKING-DETAILS.dwg

PRECISION APPROACH
ENGINEERING
5125 Southwest Hout Street
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REGISTERED PROFESSIONAL ENGINEER
OREGON
JUNE 14, 2007
GEOFF W. VAUGHN
EXPIRES 6/30/2014

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REVISION NUMBER: 0

SCALE: AS SHOWN

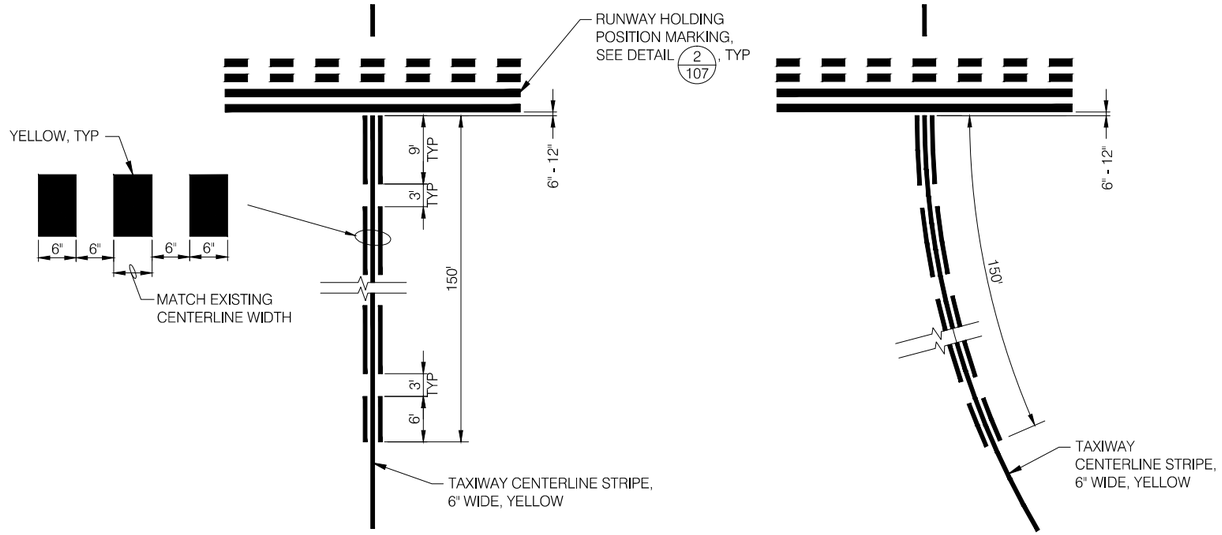
NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

PAVEMENT MARKING DETAILS

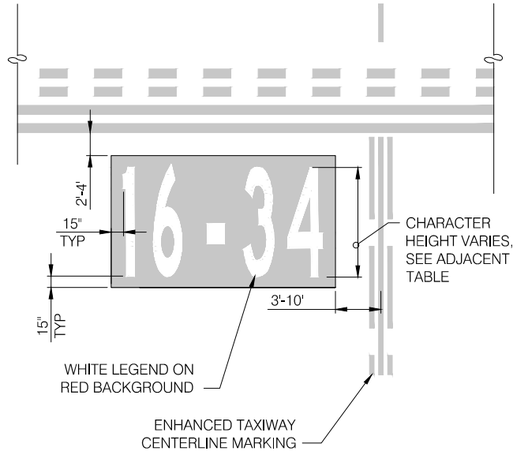
PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: **NPT008**

SHEET NO. **107**
OF **108**



ENHANCED TAXIWAY CENTERLINE PAVEMENT MARKING
NTS
1/108

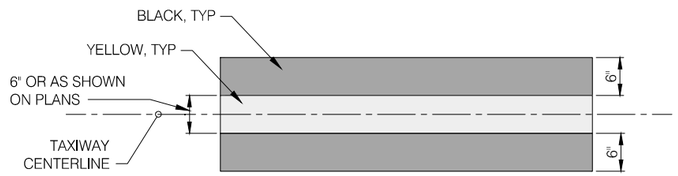


NOTE;
WHEN SIGN IS PLACED BETWEEN TWO ENHANCED TAXIWAY CENTERLINE MARKINGS, SIGN IS TO BE CENTERED BETWEEN THE TWO CENTERLINES.

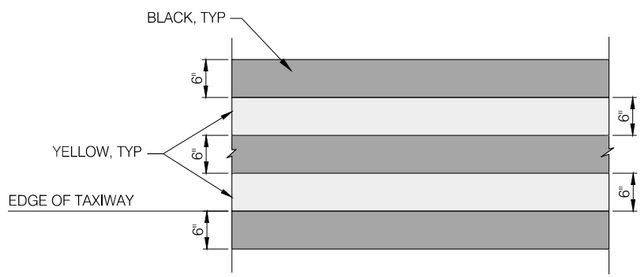
INSCRIPTION CHART

	12' CHARACTER		9' CHARACTER	
CHARACTER	HEIGHT	WIDTH	HEIGHT	WIDTH
1	12'	1'-2"	9'	11"
2	12'	3'-5"	9'	2'-6"
3	12'	3'-5"	9'	2'-6"
4	12'	3'-8"	9'	2'-9"
6	12'	3'-5"	9'	2'-6"
0	12'	3'-5"	9'	2'-6"
DASH	2'-2"	1'-10"	1'-8"	1'-4"
SPACE BETWEEN LETTERS	1'-4"		1'-2"	

THERMOPLASTIC ON-PAVEMENT HOLDING SIGN DETAIL
NTS
2/108

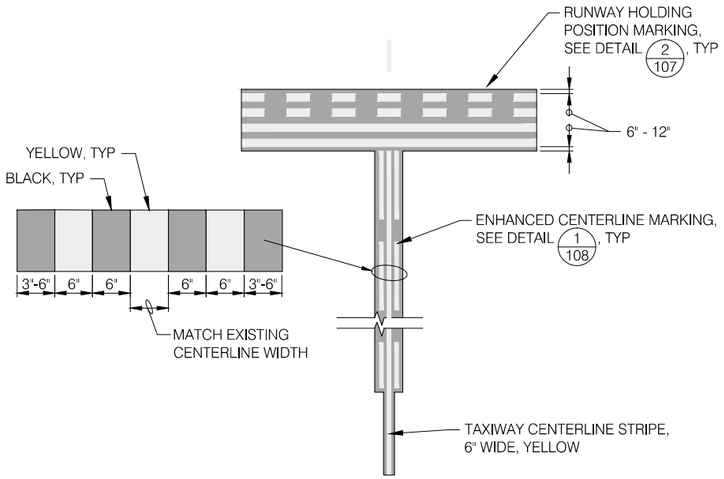


TAXIWAY CENTERLINE



SOLID TAXIWAY EDGE STRIPE

BLACK BORDER MARKING ON EXISTING PAVEMENT DETAIL
NTS
3/108



HOLDING POSITION AND ENHANCED TAXIWAY CENTERLINE MARKING

PRECISION APPROACH ENGINEERING
5125 Southwest Hout Street
Corvallis, OR 97333
541•754•0043

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NEWPORT MUNICIPAL AIRPORT
RUNWAY 16-34 REHABILITATION

PAVEMENT MARKING DETAILS

PRECISION APPROACH ENGINEERING, INC.
AIP NO. 3-41-0040-021

PROJECT NUMBER: NPT008

SHEET NO. 108 OF 108